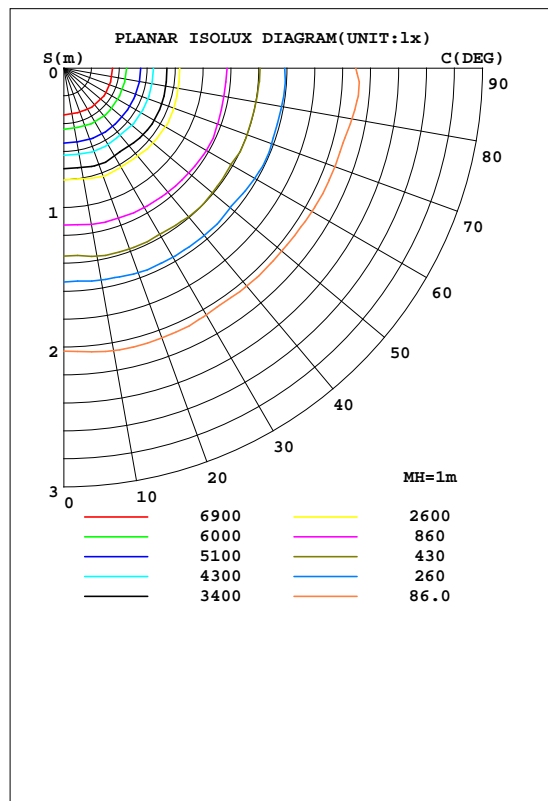
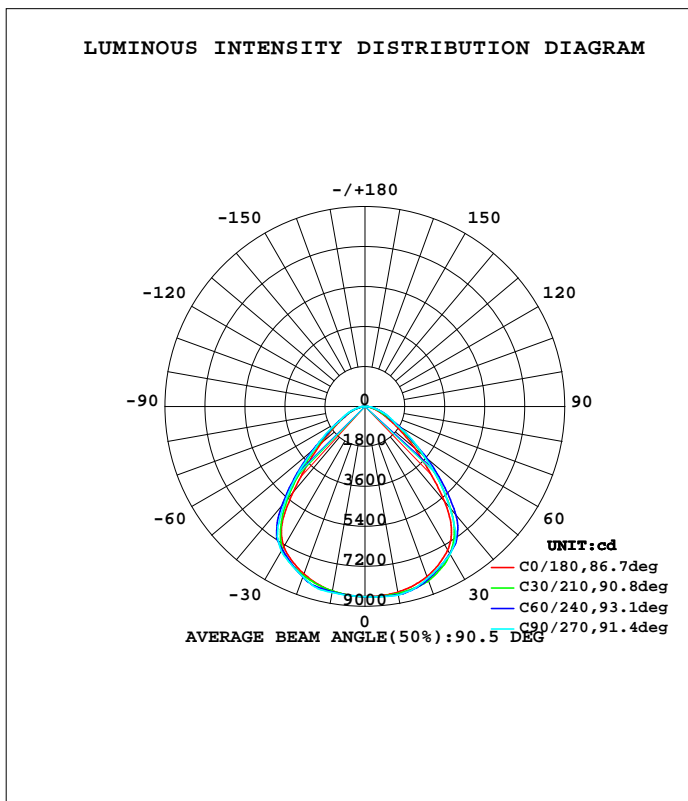


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.74 lm/W			
MODEL	Nichia757-5000K-Ra70	I _{max} (cd)	8623	S/MH(C0/180)	1.26
NOMINAL POWER(W)	154	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	18129	h UP, DN(C0-180)	0.0, 48.6
NOMINAL FLUX(lm)	18129.5	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 51.4
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	221.1	h down(%)	100.0	CIBSE SHR MAX	1.30



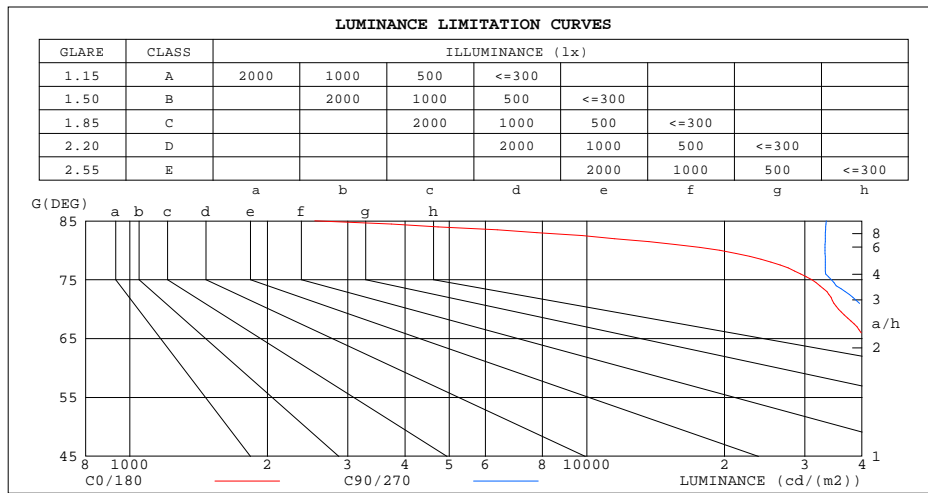
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

C Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
5	8531	8522	8536	8541	8552	8579	8594	8565	0- 5	204.6	204.6	1.13,1.13
10	8436	8450	8508	8489	8489	8572	8623	8545	5- 10	610.5	815.1	4.5,4.5
15	8270	8347	8450	8399	8360	8529	8495	8471	10- 15	1005	1820	10,10
20	8027	8190	8167	8264	8151	8354	8234	8239	15- 20	1370	3189	17.6,17.6
25	7716	7851	7854	7916	7851	8028	7957	7879	20- 25	1687	4877	26.9,26.9
30	7305	7386	7542	7436	7456	7618	7679	7430	25- 30	1950	6827	37.7,37.7
35	6536	6746	6863	6791	6802	7110	7113	6829	30- 35	2131	8958	49.4,49.4
40	5020	5676	5604	5744	5562	6333	5948	5857	35- 40	2127	11085	61.1,61.1
45	3644	4051	4272	4119	4066	4830	4709	4276	40- 45	1864	12949	71.4,71.4
50	2574	2961	2941	3020	2934	3574	3470	3138	45- 50	1495	14444	79.7,79.7
55	1784	2066	2133	2092	2063	2532	2549	2196	50- 55	1131	15575	85.9,85.9
60	1259	1318	1326	1364	1421	1658	1628	1479	55- 60	831.6	16406	90.5,90.5
65	923.1	930.9	1039	976.7	984.1	1177	1282	1062	60- 65	601.0	17007	93.8,93.8
70	656.1	657.8	752.6	684.4	672.3	842.8	935.0	761.3	65- 70	452.6	17460	96.3,96.3
75	434.0	410.6	479.1	456.1	433.8	594.8	603.7	542.7	70- 75	326.4	17786	98.1,98.1
80	183.1	184.6	311.5	240.8	172.8	360.4	395.4	338.0	75- 80	207.0	17993	99.2,99.2
85	11.95	93.26	157.3	118.2	8.779	179.9	202.6	170.0	80- 85	104.0	18097	99.8,99.8
90	1.511	3.971	2.988	3.312	0.9948	3.159	9.763	7.091	85- 90	32.13	18129	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2539	33415
80	19521	33224
75	31054	34277
70	35525	40750
65	40449	45545
60	46645	49118
55	57595	68882
50	74165	84723
45	95428	111891

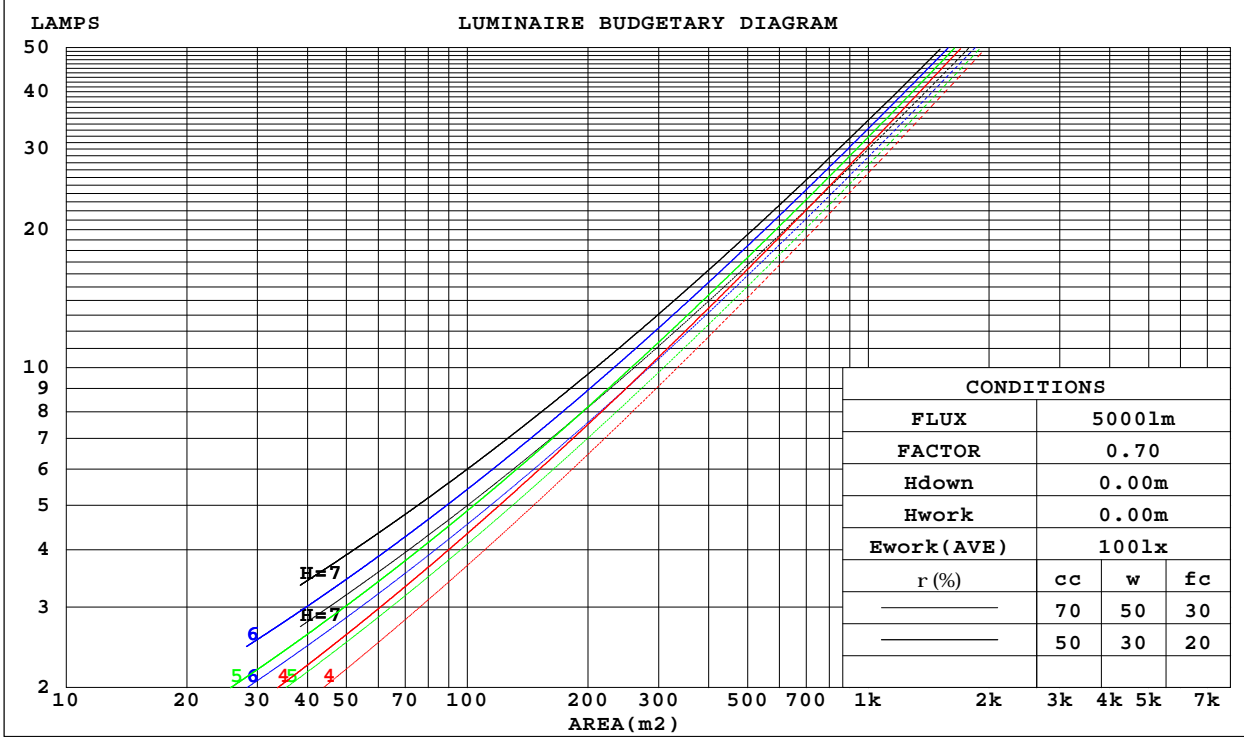
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Ryan Chan
Test Date:2015-07-14

G Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.03	1.00	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.84	.81	.84	.81	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.82	.76	.72	.79	.74	.70	.76	.73	.69	.67
4.0	.78	.70	.64	.76	.69	.64	.74	.68	.63	.72	.66	.62	.70	.65	.61	.59
5.0	.70	.62	.57	.69	.62	.56	.67	.61	.56	.65	.60	.55	.64	.59	.55	.53
6.0	.64	.56	.50	.63	.56	.50	.61	.55	.50	.60	.54	.49	.58	.53	.49	.47
7.0	.59	.51	.45	.58	.50	.45	.56	.50	.45	.55	.49	.44	.54	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.36	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.37	.33	.32



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.251	.143	.045	.244	.139	.044	.231	.133	.042	.219	.126	.041	.208	.121	.039	
2.0	.241	.132	.041	.235	.130	.040	.224	.125	.039	.214	.120	.038	.204	.115	.036	
3.0	.228	.121	.036	.223	.119	.036	.213	.115	.035	.204	.112	.034	.195	.108	.033	
4.0	.214	.111	.033	.210	.110	.032	.201	.107	.032	.193	.104	.031	.185	.101	.031	
5.0	.201	.103	.030	.197	.101	.029	.190	.099	.029	.182	.096	.029	.176	.094	.028	
6.0	.189	.095	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.178	.088	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	.158	.082	.024	
8.0	.168	.082	.023	.166	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022	
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.072	.021	
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.069	.020	.136	.068	.020	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.080	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.055	.087	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.023	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm										
NAME: LED Highbay Light					TYPE:YHL-ID-150-HB-VD			WEIGHT:6.5Kg		
SPEC.:PMMA90					DIM.:			SERIAL No.:20150714		
MFR.:					SUR.:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	26.3	27.7	26.6	27.9	28.0	26.8	28.1	27.1	28.3	28.5
3H	26.9	28.1	27.2	28.3	28.5	27.4	28.6	27.7	28.8	29.0
4H	27.1	28.2	27.4	28.5	28.7	27.6	28.7	27.9	29.0	29.2
6H	27.1	28.2	27.5	28.5	28.8	27.7	28.8	28.1	29.1	29.4
8H	27.1	28.2	27.4	28.4	28.7	27.8	28.9	28.1	29.1	29.4
12H	27.1	28.1	27.4	28.4	28.6	27.9	28.9	28.2	29.1	29.4
4H 2H	26.5	27.6	26.8	27.9	28.1	26.9	28.1	27.2	28.3	28.6
3H	27.2	28.2	27.5	28.5	28.8	27.6	28.6	28.0	28.9	29.2
4H	27.5	28.4	27.9	28.7	29.0	27.9	28.8	28.3	29.2	29.5
6H	27.6	28.4	28.0	28.8	29.1	28.2	29.0	28.6	29.4	29.7
8H	27.6	28.3	28.0	28.7	29.1	28.3	29.1	28.7	29.4	29.8
12H	27.6	28.2	28.0	28.6	29.0	28.4	29.1	28.9	29.5	29.9
8H 4H	27.5	28.3	27.9	28.6	29.0	28.0	28.7	28.4	29.1	29.4
6H	27.7	28.3	28.1	28.7	29.1	28.3	28.9	28.8	29.3	29.8
8H	27.7	28.2	28.2	28.7	29.1	28.5	29.1	29.0	29.5	29.9
12H	27.7	28.1	28.1	28.6	29.0	28.7	29.2	29.2	29.6	30.1
12H 4H	27.5	28.2	27.9	28.6	29.0	27.9	28.6	28.4	29.0	29.4
6H	27.7	28.2	28.2	28.7	29.1	28.3	28.9	28.8	29.3	29.7
8H	27.7	28.2	28.2	28.6	29.1	28.5	29.0	29.0	29.4	29.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.7 / - 0.9				
1.5H	+ 0.9 / - 1.0					+ 0.7 / - 0.7				
2.0H	+ 1.6 / - 1.4					+ 1.7 / - 1.3				

CIE Pub.117 Corrected 18129 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.1)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	67	57	51	66	57	51	65	57	51	45
0.80	77	67	61	76	67	61	74	66	61	55
1.00	85	76	70	84	75	70	82	76	69	63
1.25	91	83	77	90	82	77	87	81	76	70
1.50	95	88	82	94	87	81	91	85	80	74
2.00	101	94	89	99	93	88	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	83
3.00	106	101	97	104	99	96	101	97	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

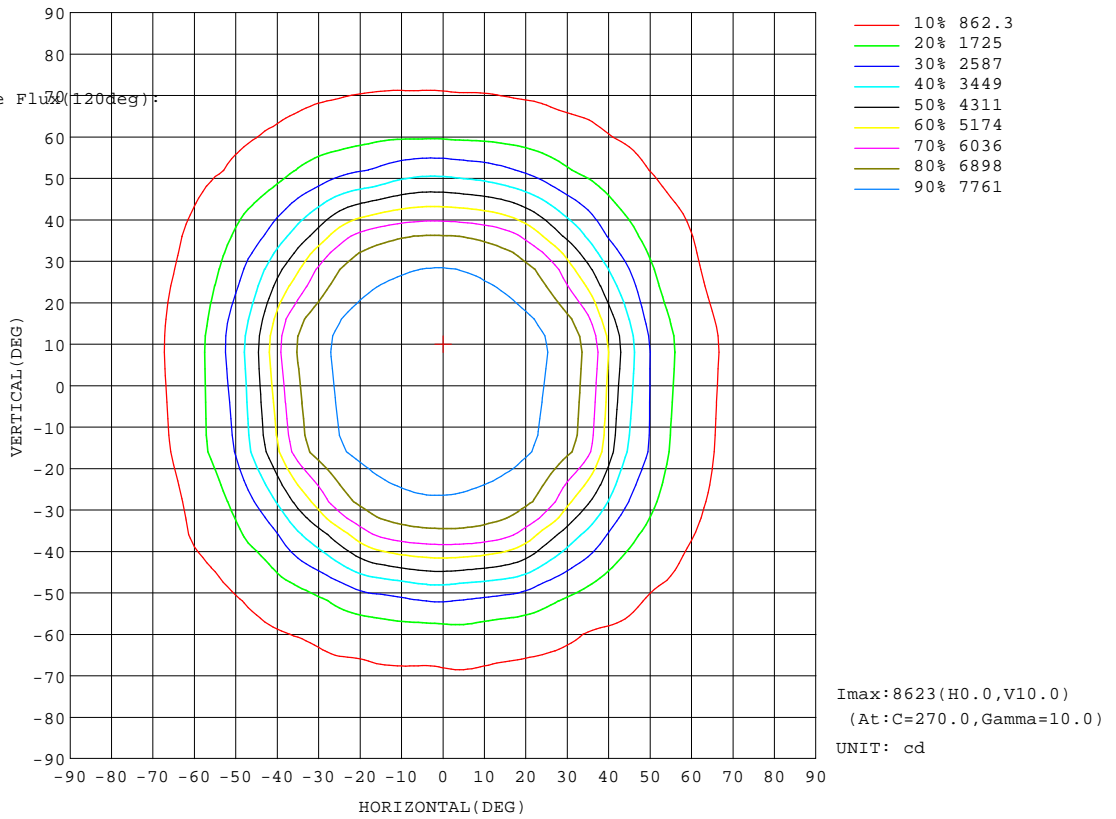
Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

12949 lm
 %lum = 71.4%
 %lamp = 71.4%

Conical surface Flux(120deg):

16406 lm
 %lum = 90.5%
 %lamp = 90.5%



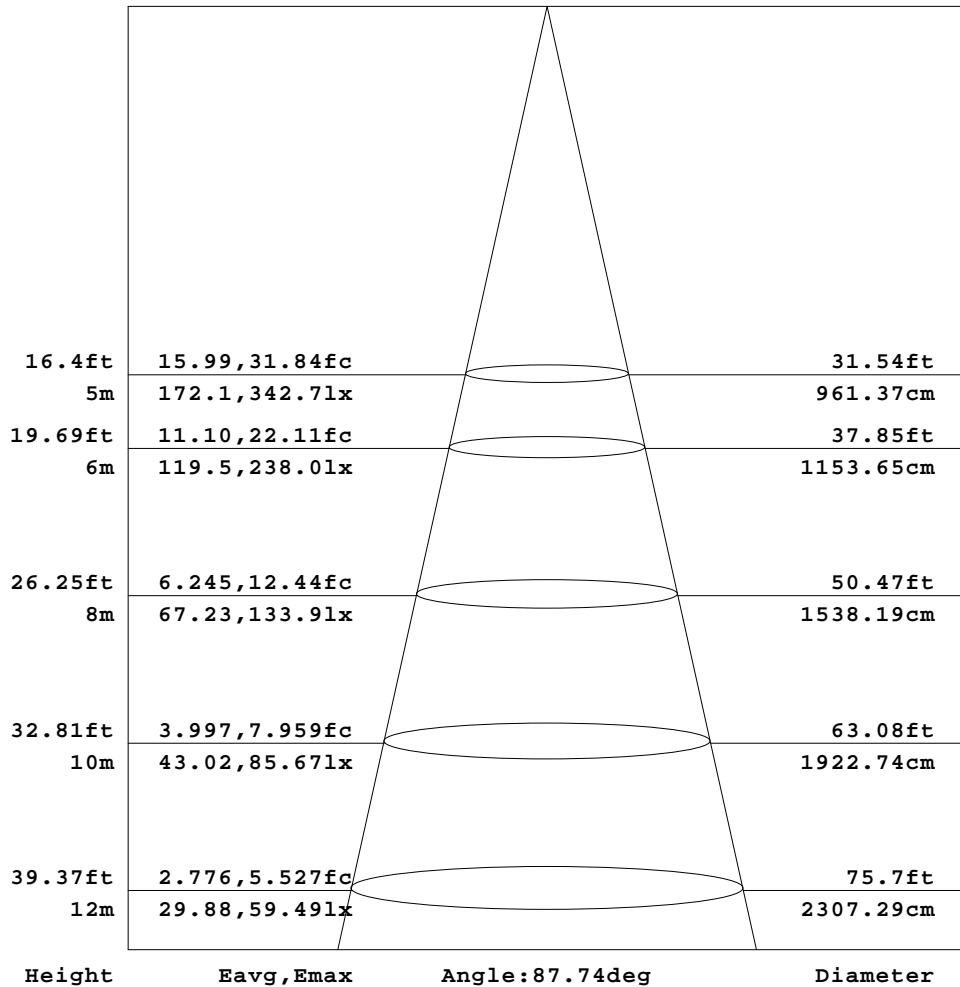
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:12605 lm



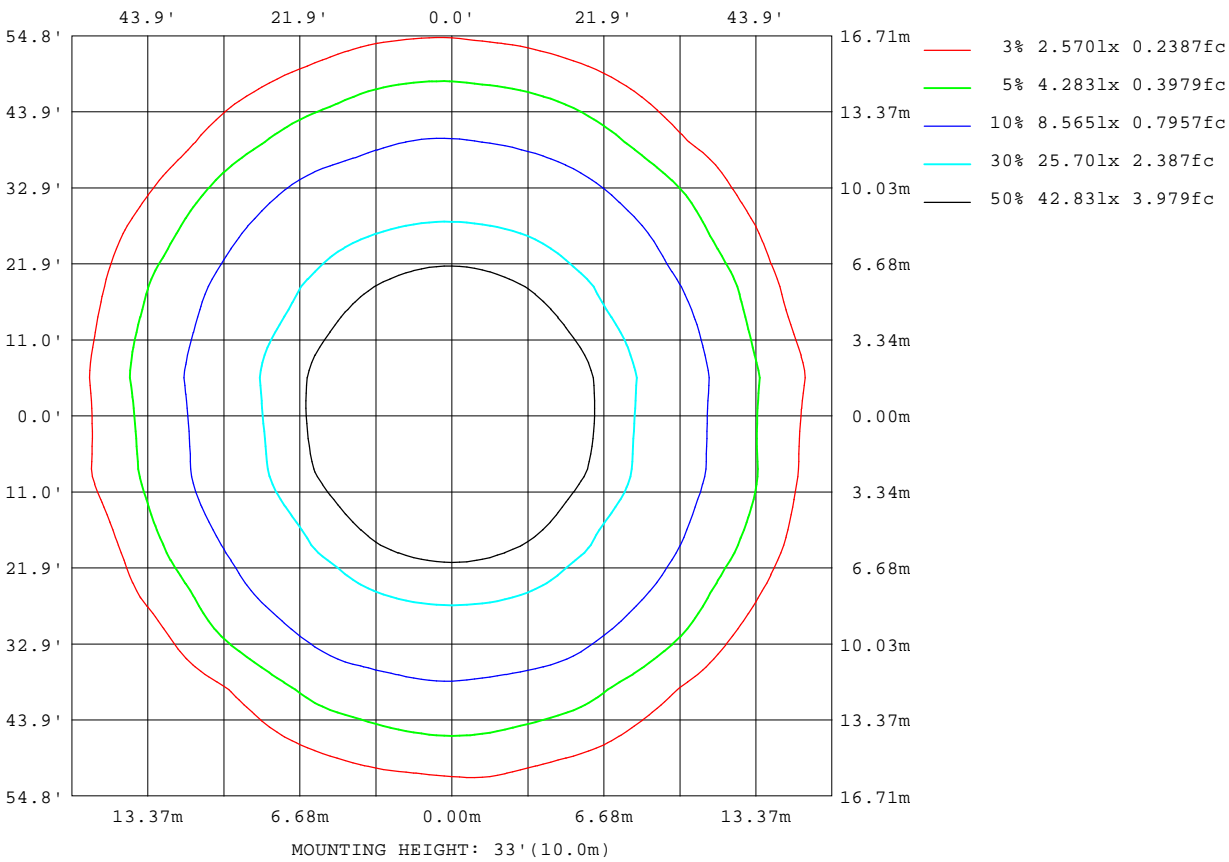
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

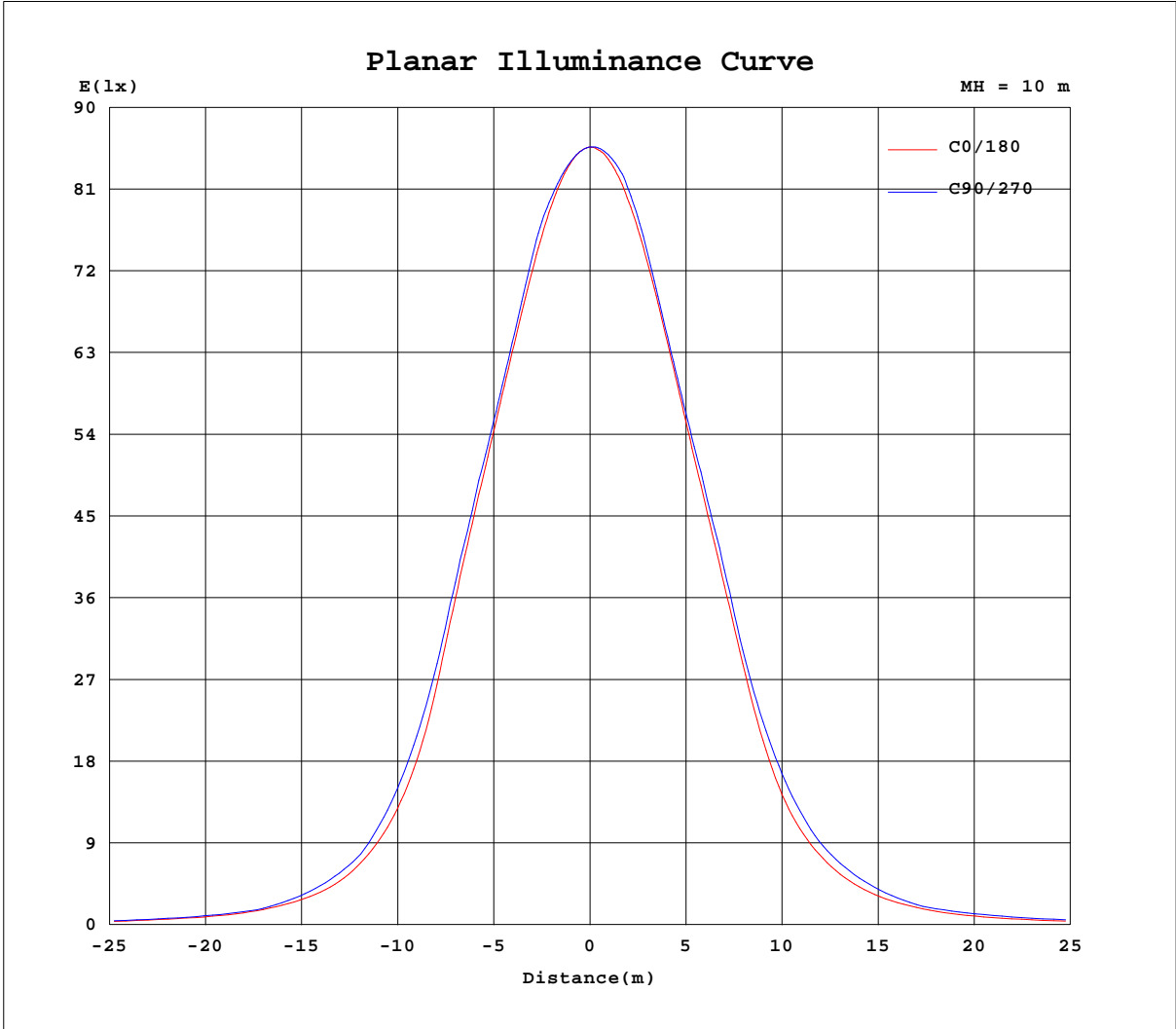
Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Ryan Chan
Test Date:2015-07-14

Page Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565
5	8531	8528	8526	8524	8522	8521	8520	8520	8521	8522	8524	8526	8527	8528	8530	8531	8533	8535	8536
10	8436	8431	8427	8426	8426	8429	8432	8438	8443	8450	8457	8466	8477	8481	8489	8496	8500	8504	8508
15	8270	8262	8259	8261	8267	8278	8294	8314	8331	8347	8366	8385	8403	8420	8438	8437	8444	8446	8450
20	8027	8018	8017	8025	8042	8067	8097	8132	8165	8190	8203	8195	8176	8165	8157	8161	8160	8162	8167
25	7716	7704	7706	7723	7751	7792	7846	7874	7867	7851	7835	7823	7823	7817	7820	7827	7840	7847	7854
30	7305	7293	7303	7338	7395	7458	7437	7374	7365	7386	7416	7440	7446	7461	7473	7489	7517	7532	7542
35	6536	6526	6585	6702	6852	6804	6615	6559	6617	6746	6886	6998	6945	6925	6933	6952	6907	6885	6863
40	5020	5008	5112	5338	5579	5524	5433	5368	5452	5676	5638	5716	5839	5846	5785	5711	5643	5610	5604
45	3644	3613	3675	3829	3909	3980	4054	4060	4046	4051	4146	4264	4429	4459	4395	4313	4258	4243	4272
50	2574	2614	2737	2803	2767	2803	2855	2874	2938	2961	2998	3041	3107	3122	3024	2924	2864	2871	2941
55	1784	1783	1881	1936	1968	1981	1950	1973	2038	2066	2024	1978	2018	2096	2093	2074	2090	2128	2133
60	1259	1281	1323	1328	1355	1360	1372	1365	1330	1318	1365	1399	1424	1431	1391	1355	1375	1407	1326
65	923	934	959	970	957	959	923	910	942	931	902	924	969	986	992	1002	1045	1088	1039
70	656	674	701	726	672	651	662	656	667	658	631	669	704	712	721	727	754	777	753
75	434	434	457	446	428	423	410	414	406	411	411	435	445	444	451	460	477	481	479
80	183	178	159	156	167	176	161	148	165	185	218	257	266	274	284	295	308	310	312
85	11.9	12.5	12.5	20.7	11.6	15.6	29.3	46.5	71.9	93.3	108	129	134	139	143	149	156	157	157
90	1.51	3.85	3.86	2.99	3.21	3.48	3.70	3.75	3.93	3.97	4.00	3.90	3.65	3.49	3.32	3.23	3.14	3.05	2.99

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Ryan Chan
Test Date:2015-07-14

g Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) g (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565
5	8537	8538	8538	8537	8537	8537	8538	8539	8541	8542	8544	8544	8544	8545	8546	8548	8550	8552	8555
10	8511	8510	8509	8509	8509	8503	8496	8492	8489	8482	8479	8479	8480	8478	8478	8480	8484	8489	8496
15	8456	8459	8466	8467	8458	8446	8433	8419	8399	8384	8374	8366	8354	8347	8344	8346	8351	8360	8373
20	8173	8182	8190	8202	8211	8228	8245	8267	8264	8244	8215	8187	8163	8150	8140	8137	8140	8151	8170
25	7859	7866	7868	7865	7867	7876	7884	7897	7916	7955	7982	7968	7924	7889	7862	7844	7841	7851	7876
30	7545	7543	7536	7522	7511	7493	7474	7448	7436	7445	7492	7582	7605	7537	7485	7452	7442	7456	7493
35	6860	6881	6916	6918	6917	6941	6984	6880	6791	6710	6682	6759	6947	6995	6868	6789	6767	6802	6887
40	5610	5631	5676	5739	5797	5786	5677	5665	5744	5590	5519	5588	5714	5860	5726	5556	5500	5562	5734
45	4281	4273	4290	4347	4425	4399	4282	4176	4119	4175	4212	4194	4192	4249	4314	4145	4054	4066	4200
50	2948	2906	2903	2985	3106	3105	3059	3012	3020	3000	2910	2912	2945	3004	3055	2970	2895	2934	3074
55	2112	2088	2070	2082	2095	2028	1959	2014	2092	2084	2008	2013	2033	2029	2046	2105	2050	2063	2177
60	1293	1344	1385	1394	1427	1443	1393	1366	1364	1364	1385	1422	1379	1353	1412	1493	1439	1421	1489
65	1007	1031	1035	998	996	997	945	963	977	940	912	932	935	989	947	951	960	984	1061
70	732	749	758	740	739	736	701	693	684	668	649	650	644	652	669	672	681	672	719
75	470	476	492	486	485	488	464	459	456	426	417	446	423	406	433	438	429	434	469
80	306	308	319	312	306	301	274	265	241	205	189	193	207	208	173	185	179	173	201
85	155	156	161	157	155	151	137	134	118	95.5	71.6	50.6	26.5	13.4	23.9	14.9	11.1	8.78	20.7
90	2.97	2.90	2.93	2.97	3.02	3.10	3.22	3.31	3.31	3.38	3.43	3.40	3.24	3.59	3.45	3.42	3.49	0.99	1.49

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Table--3 UNIT: cd

C(DEG) g (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565
5	8558	8561	8564	8568	8571	8575	8577	8579	8581	8583	8584	8584	8587	8590	8592	8593	8594	8592	8589
10	8504	8513	8524	8535	8544	8552	8562	8572	8582	8592	8602	8608	8611	8612	8614	8619	8623	8618	8614
15	8389	8409	8431	8455	8480	8505	8527	8529	8524	8517	8512	8509	8506	8502	8496	8491	8495	8494	8492
20	8197	8232	8272	8315	8352	8351	8355	8354	8339	8317	8291	8270	8255	8245	8240	8234	8234	8229	8226
25	7914	7965	8028	8059	8070	8072	8054	8028	8010	7994	7978	7968	7963	7960	7961	7959	7957	7945	7936
30	7550	7624	7671	7686	7668	7629	7616	7618	7629	7636	7643	7645	7655	7668	7676	7681	7679	7662	7640
35	7014	7156	7176	7119	7017	6995	7034	7110	7180	7245	7216	7202	7201	7201	7165	7137	7113	7105	7102
40	6006	6169	6203	6061	5990	6052	6214	6333	6349	6404	6381	6264	6154	6083	6028	5987	5948	5934	5940
45	4472	4556	4616	4681	4705	4756	4801	4830	4981	5057	5008	4893	4819	4790	4775	4752	4709	4676	4672
50	3217	3227	3272	3374	3453	3458	3514	3574	3641	3701	3660	3538	3455	3479	3510	3515	3470	3416	3403
55	2288	2309	2353	2427	2385	2439	2491	2532	2520	2476	2473	2471	2475	2544	2577	2578	2549	2499	2493
60	1503	1521	1580	1643	1701	1688	1662	1658	1747	1782	1763	1746	1734	1736	1692	1649	1628	1596	1624
65	1067	1089	1127	1128	1121	1139	1160	1177	1196	1210	1217	1244	1281	1315	1306	1294	1282	1248	1251
70	755	775	774	779	779	785	808	843	875	912	932	945	961	974	961	948	935	912	918
75	478	507	522	514	529	543	565	595	626	631	645	656	653	642	626	617	604	590	597
80	217	241	273	286	298	323	349	360	398	397	409	425	428	420	410	405	395	386	389
85	32.4	42.5	50.6	86.0	124	153	170	180	198	201	207	217	220	216	211	208	203	197	198
90	1.93	2.36	2.64	2.96	3.14	3.15	3.16	3.16	3.38	4.95	7.23	9.48	11.3	12.2	12.2	11.2	9.76	8.29	7.60

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25DEG Operators:Ryan Chan Test Date:2015-07-14	Range: 0 - 90DEG Interval: 0.5DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266 Humidity:65.0% Test Distance:10.000m [K=1.0000] Remarks:
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.7037A P:151.4W PF:0.9731 Lamp Flux:18129.5x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-150-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C (DEG) g (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565	8565				
5	8587	8584	8581	8578	8574	8570	8565	8560	8555	8551	8547	8544	8540	8537	8534				
10	8608	8601	8593	8585	8570	8557	8545	8530	8515	8500	8487	8474	8462	8452	8443				
15	8489	8492	8488	8479	8473	8471	8471	8465	8433	8403	8372	8344	8320	8299	8282				
20	8224	8223	8222	8224	8231	8237	8239	8234	8230	8230	8191	8146	8105	8071	8045				
25	7924	7911	7891	7885	7875	7874	7879	7896	7920	7924	7923	7897	7836	7783	7743				
30	7618	7576	7556	7520	7493	7457	7430	7413	7434	7495	7538	7529	7481	7401	7341				
35	7110	7082	7046	7036	7050	6940	6829	6729	6672	6682	6801	6871	6882	6734	6608				
40	5976	6021	6045	6024	5923	5839	5857	5644	5486	5481	5525	5547	5531	5415	5154				
45	4697	4724	4723	4674	4550	4381	4276	4227	4166	4072	4000	3999	4025	4032	3780				
50	3414	3431	3429	3387	3302	3207	3138	3016	2873	2882	2852	2797	2739	2737	2638				
55	2479	2447	2382	2295	2204	2191	2196	2115	2014	1970	1953	1885	1846	1884	1864				
60	1641	1657	1652	1614	1554	1517	1479	1431	1420	1370	1288	1282	1314	1341	1311				
65	1225	1196	1161	1093	1060	1091	1062	1018	963	939	929	950	914	910	954				
70	897	876	864	828	821	799	761	737	714	701	690	649	673	690	683				
75	578	567	580	581	585	562	543	515	511	512	476	476	474	455	457				
80	373	365	372	377	371	353	338	313	305	283	275	273	238	229	206				
85	190	186	189	192	187	179	170	158	143	117	72.6	41.1	41.3	28.5	19.5				
90	6.74	5.88	5.79	6.12	6.52	6.87	7.09	7.27	7.19	7.08	6.28	5.01	3.74	2.95	2.03				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.000m [K=1.0000]
 Remarks: