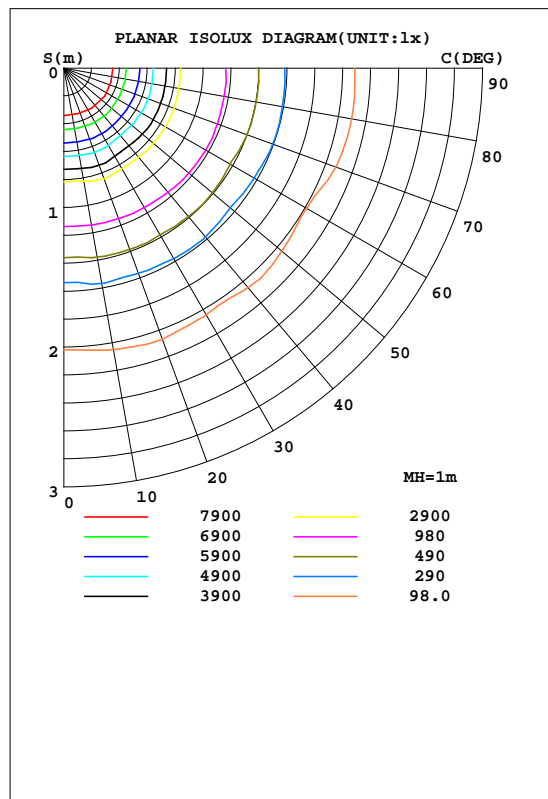
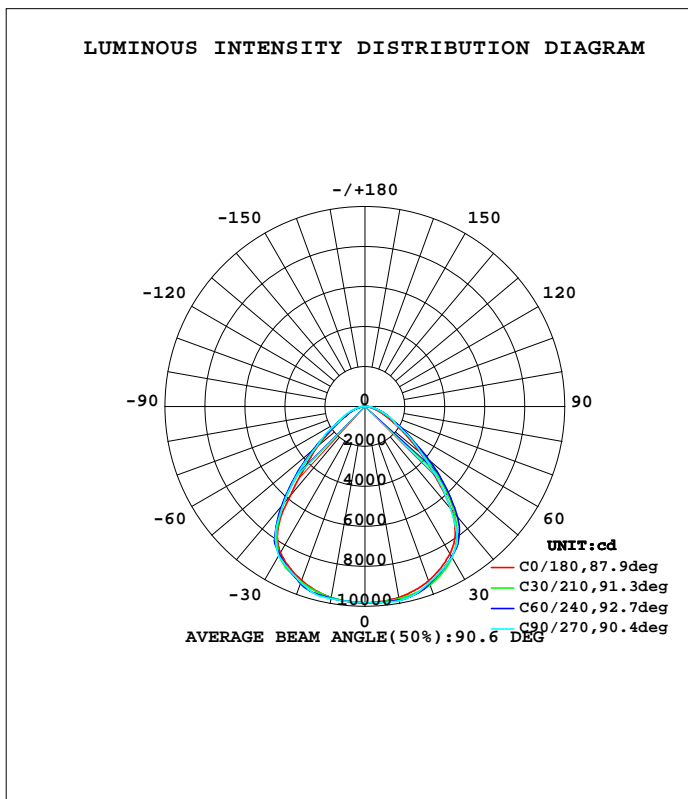


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.43 lm/W			
2MODES Nichia757-5000K-Ra70		I _{max} (cd)	9874	S/MH(C0/180)	1.28
NOMINAL POWER(W)	182	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	20819	h UP, DN(C0-180)	0.0, 48.8
NOMINAL FLUX(lm)	20819	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 51.2
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	221.2	h down(%)	100.0	CIBSE SHR MAX	1.35



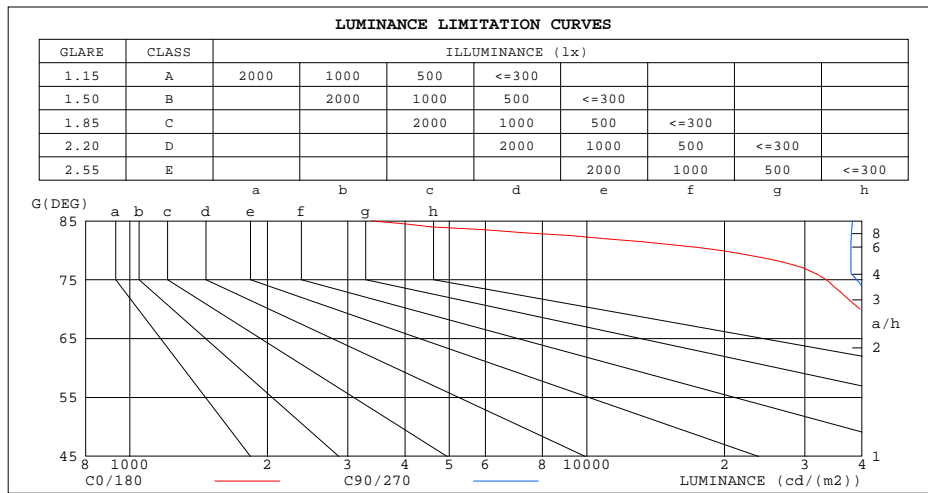
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Ryan Chan
 Test Date:2015-07-14

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:

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	9790	9785	9789	9778	9782	9816	9844	9825	0- 5	234.5	234.5	1.13,1.13
10	9703	9717	9762	9712	9699	9798	9871	9807	5- 10	699.7	934.2	4.49,4.49
15	9526	9614	9701	9612	9533	9727	9711	9733	10- 15	1151	2086	10,10
20	9259	9452	9369	9451	9286	9507	9390	9462	15- 20	1570	3655	17.6,17.6
25	8910	9032	9003	9044	8938	9126	9050	9049	20- 25	1932	5588	26.8,26.8
30	8458	8436	8637	8494	8503	8644	8709	8520	25- 30	2232	7819	37.6,37.6
35	7619	7651	7810	7812	7870	8059	8038	7811	30- 35	2438	10257	49.3,49.3
40	5818	6487	6340	6785	6698	7223	6659	6576	35- 40	2437	12694	61,61
45	4172	4661	4789	4989	5015	5633	5192	4677	40- 45	2144	14838	71.3,71.3
50	3081	3405	3239	3639	3630	4174	3725	3421	45- 50	1721	16560	79.5,79.5
55	2065	2330	2364	2573	2548	2964	2776	2437	50- 55	1308	17868	85.8,85.8
60	1423	1492	1489	1696	1720	1948	1827	1634	55- 60	963.9	18832	90.5,90.5
65	1017	1112	1169	1214	1182	1382	1450	1192	60- 65	696.2	19528	93.8,93.8
70	732.5	767.4	849.5	847.4	775.5	973.8	1072	852.9	65- 70	521.6	20049	96.3,96.3
75	466.7	467.4	544.3	567.0	500.6	689.1	709.2	614.3	70- 75	375.7	20425	98.1,98.1
80	183.1	207.1	354.7	309.3	215.9	424.1	464.6	386.9	75- 80	237.0	20662	99.2,99.2
85	15.87	101.7	179.5	153.9	26.79	213.6	234.8	196.2	80- 85	119.5	20782	99.8,99.8
90	1.896	5.054	4.421	4.049	1.286	4.727	5.022	9.551	85- 90	37.38	20819	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		



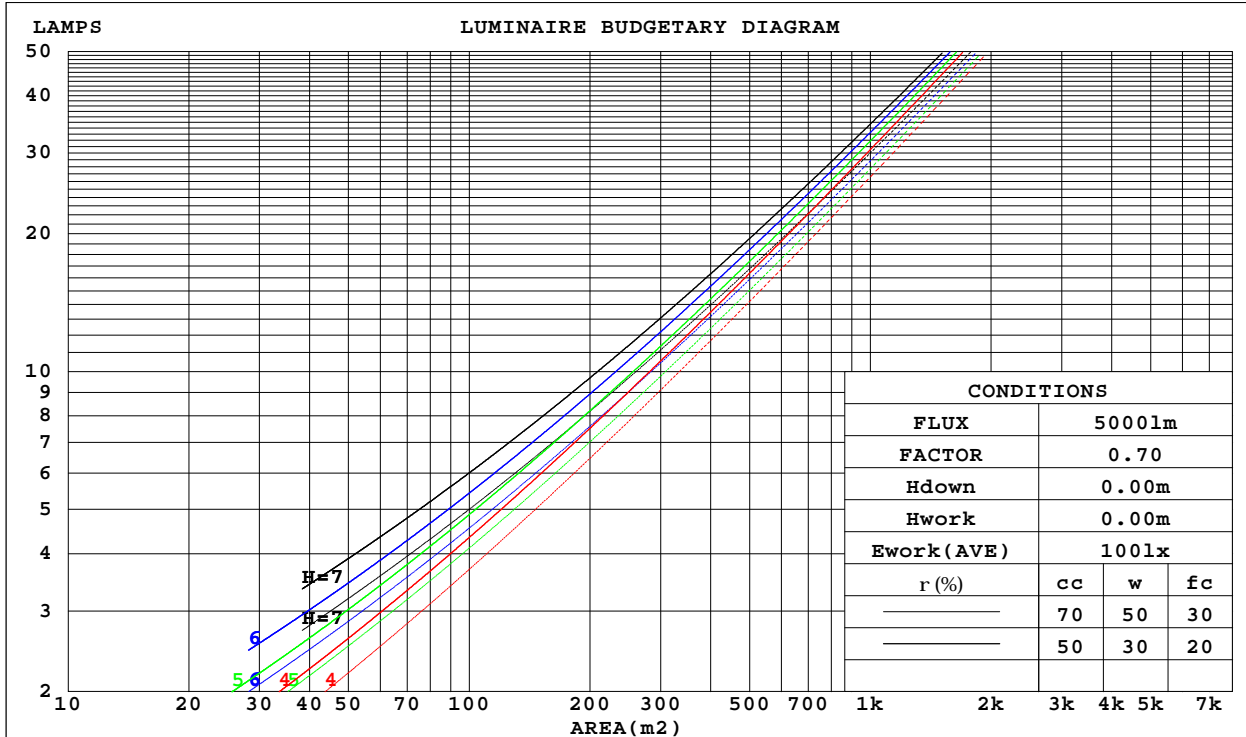
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Ryan Chan
Test Date:2015-07-14

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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	.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	.80	.84	.81	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.82	.76	.72	.79	.74	.70	.76	.73	.69	.67
4.0	.77	.70	.64	.76	.69	.64	.74	.68	.63	.72	.66	.62	.70	.65	.61	.59
5.0	.70	.62	.56	.69	.62	.56	.67	.61	.56	.65	.60	.55	.64	.59	.54	.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	.40	.36	.35
10.0	.46	.39	.34	.46	.38	.34	.45	.38	.34	.44	.38	.33	.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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	.127	.041	.208	.121	.039	
2.0	.242	.132	.041	.236	.130	.040	.224	.125	.039	.214	.120	.038	.204	.116	.036	
3.0	.228	.121	.036	.223	.119	.036	.213	.115	.035	.204	.112	.034	.196	.108	.034	
4.0	.215	.111	.033	.210	.110	.032	.201	.107	.032	.193	.104	.031	.186	.101	.031	
5.0	.202	.103	.030	.197	.101	.030	.190	.099	.029	.183	.096	.029	.176	.094	.028	
6.0	.190	.095	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.088	.025	.175	.087	.025	.169	.086	.025	.164	.084	.024	.158	.082	.024	
8.0	.169	.082	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	.150	.077	.022	
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.073	.021	
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.070	.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	.063	.127	.087	.055	.088	.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	.080	.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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm										
NAME: LED Highbay Light					TYPE:YHL-ID-180-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	26.8	28.2	27.1	28.4	28.5	27.2	28.5	27.4	28.7	28.9
3H	27.3	28.5	27.6	28.8	29.0	27.7	29.0	28.0	29.2	29.4
4H	27.5	28.6	27.8	28.9	29.1	28.0	29.1	28.3	29.4	29.6
6H	27.5	28.6	27.8	28.9	29.1	28.1	29.2	28.5	29.5	29.8
8H	27.5	28.5	27.8	28.8	29.1	28.2	29.3	28.5	29.5	29.8
12H	27.4	28.4	27.8	28.7	29.0	28.3	29.3	28.6	29.5	29.8
4H 2H	27.0	28.1	27.3	28.4	28.6	27.3	28.4	27.6	28.7	28.9
3H	27.6	28.6	28.0	28.9	29.2	28.0	29.0	28.3	29.3	29.6
4H	27.9	28.8	28.2	29.1	29.4	28.3	29.2	28.7	29.5	29.9
6H	28.0	28.8	28.4	29.1	29.5	28.6	29.4	29.0	29.8	30.1
8H	27.9	28.7	28.3	29.0	29.4	28.8	29.5	29.2	29.9	30.2
12H	27.9	28.6	28.3	29.0	29.3	28.9	29.5	29.3	29.9	30.3
8H 4H	27.9	28.7	28.3	29.0	29.4	28.3	29.1	28.8	29.4	29.8
6H	28.0	28.6	28.5	29.0	29.5	28.7	29.3	29.2	29.7	30.2
8H	28.0	28.6	28.5	29.0	29.4	28.9	29.5	29.4	29.9	30.3
12H	28.0	28.4	28.5	28.9	29.4	29.1	29.6	29.6	30.0	30.5
12H 4H	27.9	28.6	28.3	29.0	29.4	28.3	29.0	28.7	29.4	29.8
6H	28.0	28.6	28.5	29.0	29.4	28.7	29.3	29.2	29.7	30.1
8H	28.0	28.5	28.5	28.9	29.4	28.9	29.4	29.4	29.8	30.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.3					+ 0.7 / - 0.9				
1.5H	+ 1.0 / - 0.9					+ 0.6 / - 0.7				
2.0H	+ 1.6 / - 1.5					+ 1.7 / - 1.5				

CIE Pub.117 Corrected 20819 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.5)

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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	56	51	45
0.80	77	67	61	76	67	61	74	66	61	55
1.00	85	76	70	84	75	69	82	76	69	63
1.25	91	83	77	90	82	76	87	81	76	70
1.50	95	87	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	95	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

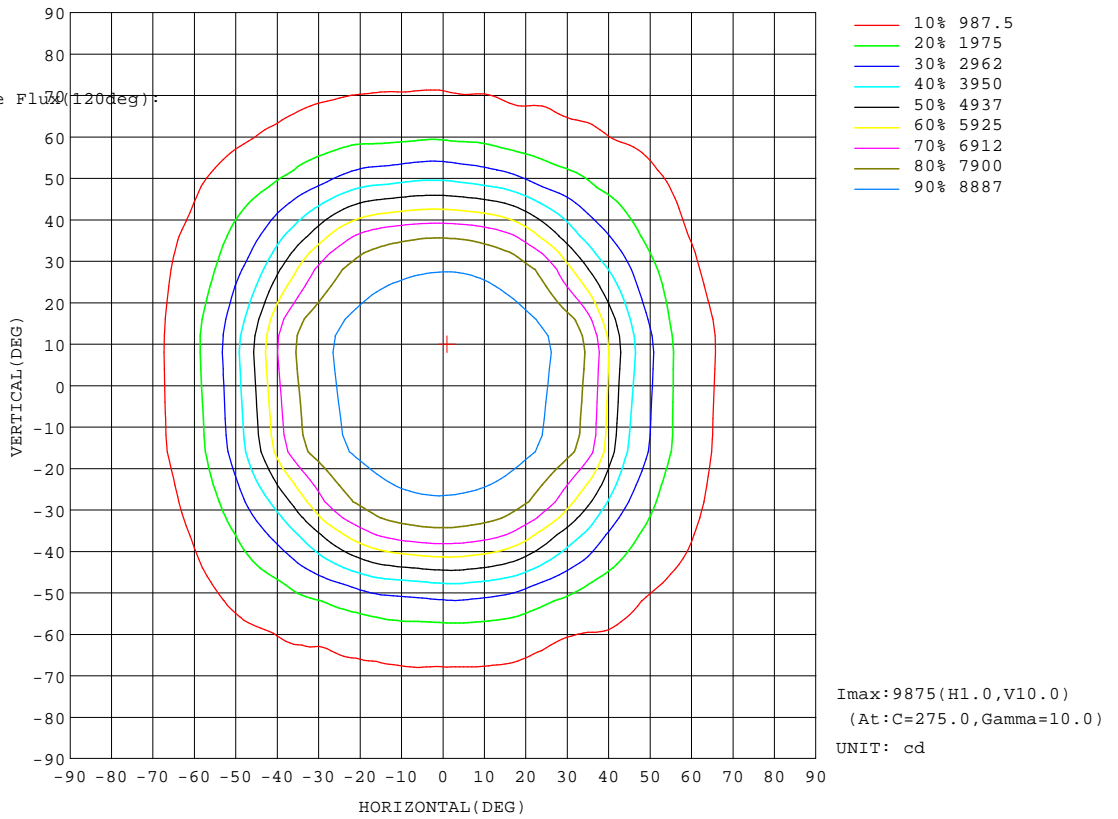
Test:U:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

14838 lm
%lum = 71.3%
%lamp = 71.3%

Conical surface Flux(120deg):

18832 lm
%lum = 90.5%
%lamp = 90.5%



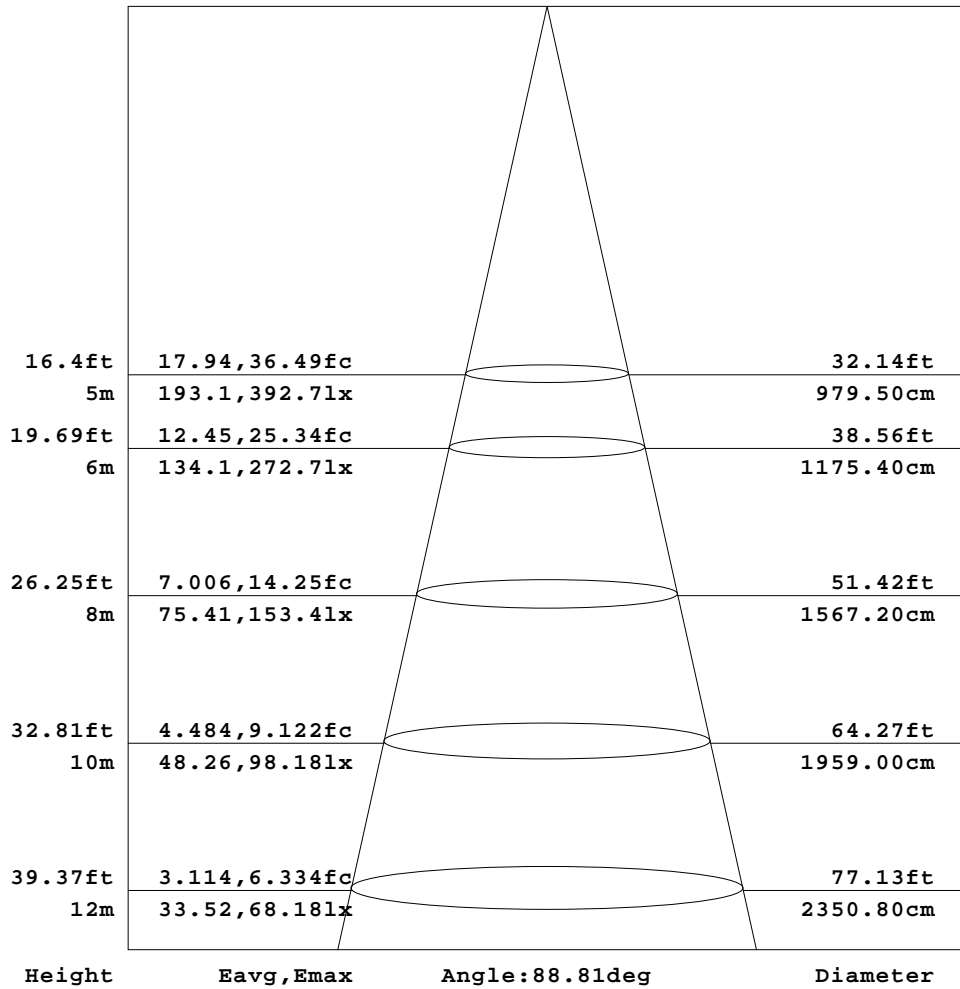
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Ryan Chan
Test Date:2015-07-14

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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:14642 lm



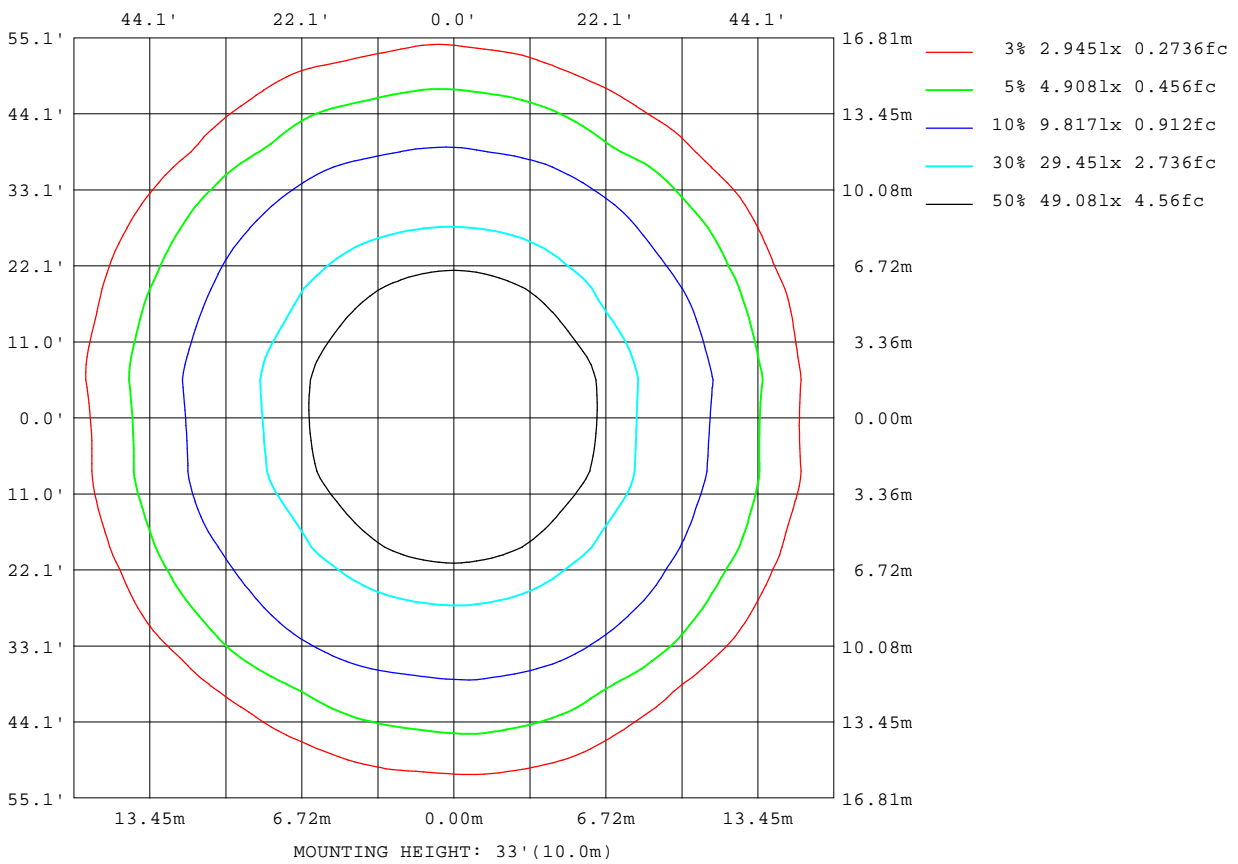
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

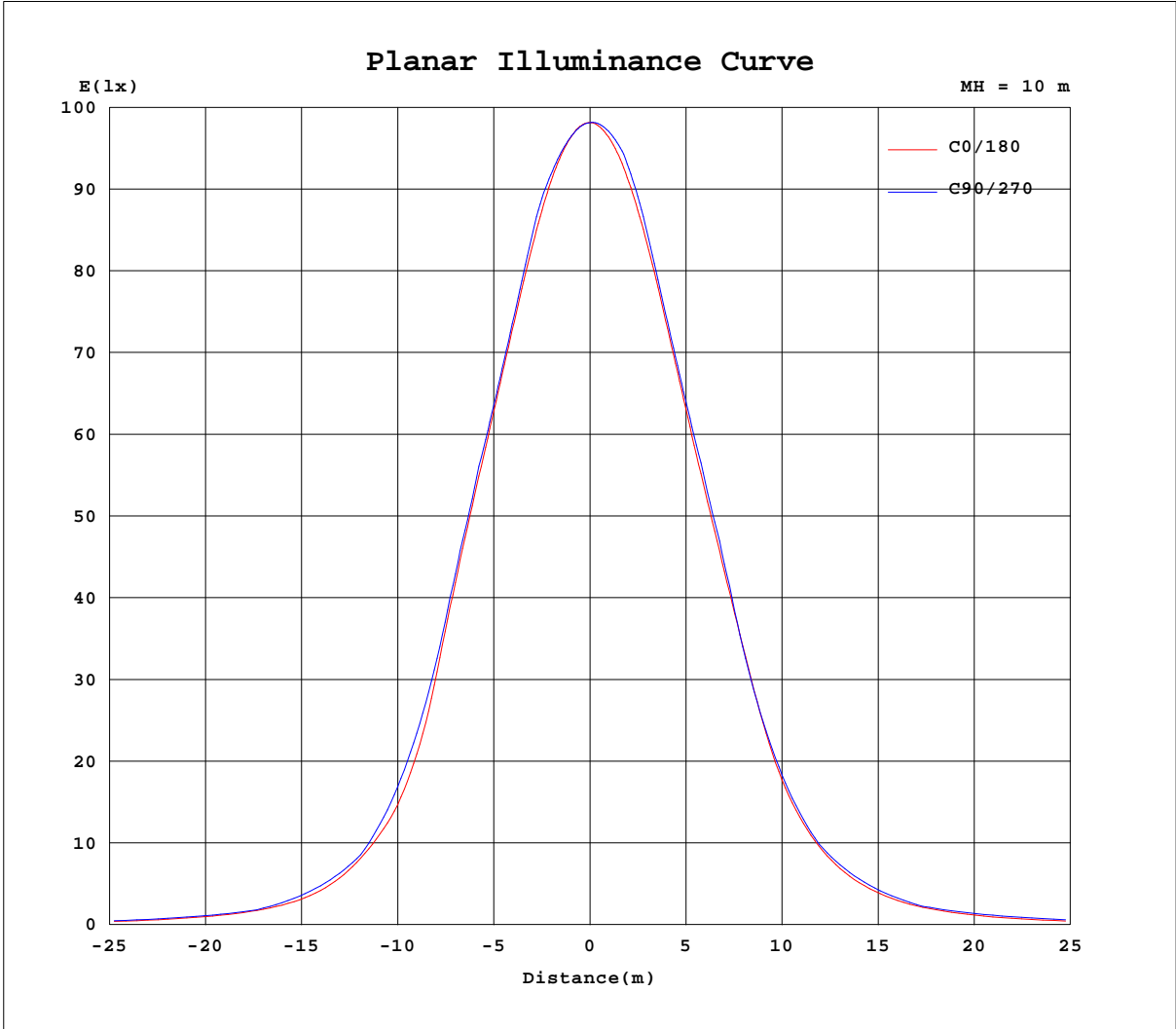
Test:U:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-HB-VD	WEIGHT:6.5Kg
SPEC.:PMMA90	DIM.:	SERIAL No.:20150714
MFR.:	SUR.:	PROTECTION ANGLE:



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
Page 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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817
5	9790	9787	9785	9784	9784	9783	9784	9785	9785	9785	9786	9786	9786	9786	9786	9787	9787	9788	9789
10	9703	9698	9695	9693	9693	9696	9699	9705	9711	9717	9723	9730	9740	9748	9754	9755	9756	9758	9762
15	9526	9520	9518	9521	9529	9542	9559	9573	9592	9614	9635	9655	9673	9687	9702	9704	9700	9695	9701
20	9259	9250	9251	9263	9283	9309	9342	9381	9426	9452	9457	9438	9418	9400	9384	9375	9373	9364	9369
25	8910	8898	8902	8921	8954	9002	9059	9086	9071	9032	9015	9007	9002	8999	8996	8992	8993	8997	9003
30	8458	8442	8454	8493	8549	8625	8595	8485	8436	8436	8466	8505	8545	8575	8596	8605	8612	8629	8637
35	7619	7606	7664	7782	7939	7884	7676	7574	7576	7651	7772	7907	7858	7832	7830	7833	7808	7808	7810
40	5818	5829	5999	6323	6597	6456	6320	6262	6364	6487	6397	6415	6495	6505	6474	6421	6375	6364	6340
45	4172	4142	4228	4459	4540	4597	4675	4714	4707	4661	4734	4843	4931	4971	4939	4887	4839	4836	4789
50	3081	3076	3172	3231	3181	3211	3250	3249	3345	3405	3424	3444	3463	3472	3425	3360	3303	3311	3239
55	2065	2098	2223	2221	2257	2293	2254	2288	2314	2330	2293	2229	2233	2315	2385	2394	2390	2404	2364
60	1423	1461	1539	1516	1492	1519	1555	1584	1569	1492	1525	1541	1542	1570	1600	1576	1546	1515	1489
65	1017	1029	1067	1107	1123	1083	1057	1023	1092	1112	1048	988	1005	1074	1147	1177	1186	1180	1169
70	732	743	745	754	768	758	735	739	743	767	749	734	737	786	840	864	866	854	849
75	467	467	471	457	464	449	445	437	449	467	461	473	483	506	542	559	558	542	544
80	183	180	162	150	156	174	164	151	164	207	226	265	297	314	346	361	362	352	355
85	15.9	16.4	15.3	21.3	15.0	15.0	24.5	44.9	70.6	102	115	132	151	158	175	183	183	178	180
90	1.90	4.65	4.33	3.52	3.91	4.06	4.23	4.40	4.74	5.05	5.22	5.22	5.02	4.82	4.76	4.71	4.66	4.56	4.42

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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817
5	9789	9789	9787	9786	9784	9783	9782	9780	9778	9776	9775	9775	9775	9776	9777	9778	9780	9782	9785
10	9761	9757	9753	9748	9740	9735	9727	9719	9712	9705	9700	9696	9694	9691	9691	9692	9695	9699	9706
15	9700	9699	9697	9700	9686	9668	9651	9635	9612	9590	9573	9556	9540	9529	9523	9522	9525	9533	9545
20	9369	9374	9384	9390	9403	9425	9442	9457	9451	9427	9386	9347	9319	9295	9279	9272	9275	9286	9307
25	9004	9007	9010	9014	9019	9018	9019	9027	9044	9080	9100	9072	9015	8974	8944	8927	8925	8938	8968
30	8638	8645	8636	8629	8604	8571	8532	8506	8494	8499	8546	8637	8659	8590	8537	8501	8489	8503	8541
35	7815	7826	7859	7865	7882	7917	7982	7890	7812	7753	7738	7810	7999	8064	7946	7868	7842	7870	7945
40	6336	6353	6418	6500	6591	6646	6648	6674	6785	6657	6523	6558	6726	6986	6892	6722	6651	6698	6853
45	4764	4772	4849	4961	5045	5088	5090	5049	4989	4985	4993	5019	5133	5238	5286	5092	4994	5015	5174
50	3189	3195	3296	3440	3529	3590	3652	3666	3639	3596	3599	3636	3743	3808	3836	3731	3615	3630	3777
55	2328	2337	2361	2372	2349	2322	2362	2496	2573	2581	2622	2641	2671	2646	2647	2669	2552	2548	2663
60	1490	1553	1570	1555	1599	1648	1660	1723	1696	1731	1823	1831	1797	1796	1785	1775	1716	1720	1828
65	1173	1190	1167	1127	1130	1100	1102	1204	1214	1217	1209	1252	1233	1180	1192	1172	1176	1182	1276
70	867	860	854	866	854	814	858	871	847	865	883	852	822	781	773	787	820	776	806
75	573	543	556	608	567	550	602	568	567	572	557	543	528	503	496	512	501	501	525
80	376	350	362	399	355	350	371	317	309	265	236	240	246	232	220	213	212	216	247
85	190	177	184	201	177	179	184	160	154	120	88.9	66.8	44.8	28.6	33.5	31.6	25.0	26.8	43.3
90	4.28	3.96	4.01	3.84	3.71	3.73	3.81	3.90	4.05	3.86	3.94	4.18	4.27	4.97	5.73	6.39	4.58	1.29	3.78

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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817
5	9788	9791	9794	9798	9802	9806	9811	9816	9821	9826	9831	9835	9838	9840	9842	9843	9844	9844	9845
10	9714	9724	9736	9748	9761	9774	9786	9798	9811	9822	9829	9839	9849	9859	9867	9870	9871	9874	9872
15	9561	9581	9605	9633	9663	9692	9721	9727	9727	9727	9730	9735	9733	9729	9722	9717	9711	9714	9715
20	9337	9375	9419	9466	9505	9505	9511	9507	9495	9473	9447	9430	9420	9409	9402	9394	9390	9397	9396
25	9012	9072	9142	9172	9176	9172	9150	9126	9104	9084	9070	9055	9052	9050	9049	9047	9050	9057	9053
30	8602	8684	8735	8744	8715	8661	8644	8644	8652	8664	8669	8675	8676	8686	8692	8699	8709	8717	8711
35	8063	8196	8199	8120	8009	7974	7992	8059	8139	8202	8165	8142	8128	8119	8081	8054	8038	8034	8044
40	7105	7236	7222	7035	6963	7005	7139	7223	7202	7232	7211	7076	6929	6814	6738	6689	6659	6643	6655
45	5487	5523	5529	5518	5510	5615	5628	5633	5721	5758	5718	5604	5447	5331	5267	5226	5192	5148	5142
50	3937	3897	3895	3941	4012	4107	4132	4174	4218	4238	4232	4151	3980	3841	3794	3762	3725	3649	3628
55	2776	2772	2813	2810	2872	2923	2970	2964	2923	2825	2884	2946	2870	2797	2790	2807	2776	2705	2682
60	1893	1892	1946	2013	2049	2044	1994	1948	2027	2042	2054	2063	1954	1870	1837	1860	1827	1781	1793
65	1285	1258	1290	1362	1406	1402	1392	1382	1382	1390	1420	1461	1442	1425	1428	1466	1450	1391	1389
70	855	920	914	952	957	949	942	974	1007	1047	1067	1092	1091	1085	1067	1084	1072	1012	1032
75	546	579	614	638	646	646	665	689	716	724	725	732	733	753	719	718	709	648	691
80	264	291	324	346	367	399	414	424	450	456	458	468	475	497	472	470	465	421	454
85	56.0	67.5	75.3	111	151	191	204	214	226	234	235	240	243	254	240	238	235	213	230
90	4.37	4.83	5.16	5.25	5.14	4.97	4.68	4.73	7.53	11.5	13.0	13.7	12.5	10.4	7.71	5.90	5.02	4.98	5.41

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:221.2V I:0.8602A P:181.9W PF:0.9562 Lamp Flux:20819x1 lm		
NAME: LED Highbay Light	TYPE:YHL-ID-180-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	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817	9817				
5	9843	9841	9839	9835	9832	9828	9825	9821	9817	9812	9808	9803	9799	9796	9792				
10	9865	9858	9851	9840	9831	9819	9807	9792	9777	9765	9752	9740	9728	9718	9710				
15	9715	9721	9718	9717	9718	9723	9733	9733	9696	9663	9632	9604	9577	9555	9538				
20	9403	9407	9416	9426	9440	9450	9462	9461	9467	9481	9439	9389	9345	9307	9279				
25	9055	9051	9046	9039	9036	9037	9049	9077	9100	9114	9127	9105	9038	8980	8937				
30	8704	8682	8655	8621	8591	8556	8520	8508	8537	8626	8698	8701	8653	8565	8499				
35	8058	8030	8010	8026	8073	7948	7811	7672	7599	7675	7893	8013	8025	7851	7701				
40	6693	6741	6770	6748	6630	6574	6576	6300	6190	6232	6335	6423	6412	6266	5966				
45	5173	5219	5207	5131	4992	4849	4677	4604	4545	4559	4591	4614	4641	4605	4325				
50	3661	3696	3655	3603	3569	3530	3421	3335	3331	3366	3355	3282	3261	3318	3198				
55	2634	2563	2455	2351	2375	2464	2437	2431	2412	2324	2299	2261	2219	2195	2144				
60	1718	1679	1719	1716	1721	1719	1634	1668	1673	1638	1584	1584	1504	1470	1460				
65	1287	1209	1244	1200	1152	1210	1192	1185	1164	1162	1115	1035	1026	1032	1064				
70	966	908	953	905	901	892	853	875	882	838	780	756	779	768	764				
75	657	611	667	630	653	623	614	617	593	563	547	530	523	499	480				
80	427	399	433	406	420	390	387	346	309	297	289	284	250	236	223				
85	216	203	220	207	213	199	196	167	138	114	71.7	38.6	42.0	26.8	20.2				
90	6.04	6.74	7.45	8.12	8.69	9.23	9.55	9.60	9.63	9.12	7.79	5.91	4.31	3.48	2.48				

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: