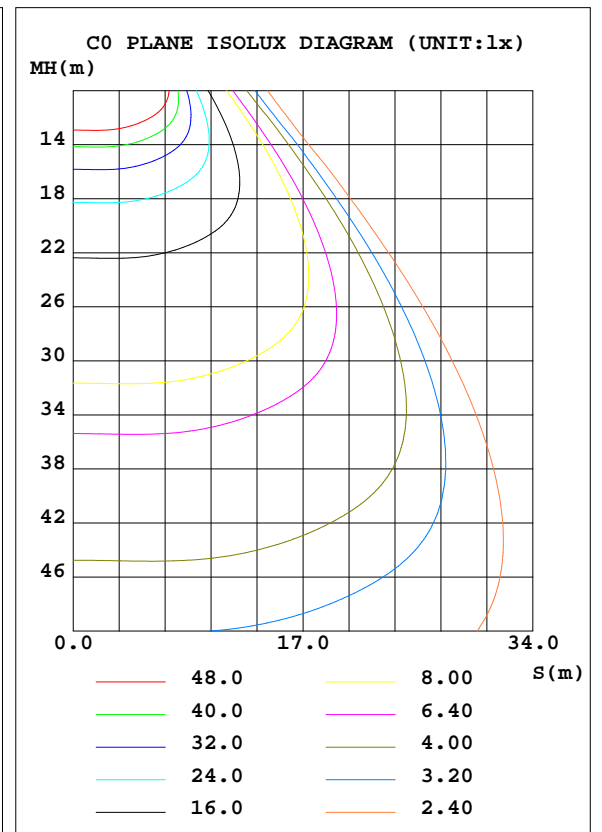
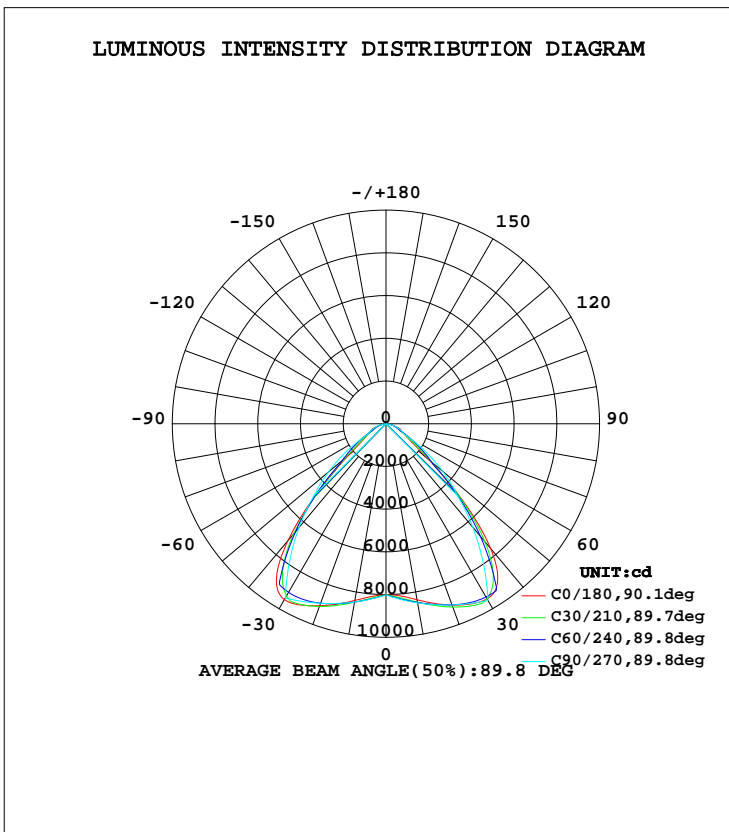


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.77 lm/W			
MODEL	QH-HBUFO-160W	Imax(cd)	9584	S/MH(C0/180)	1.35
NOMINAL POWER(W)	164	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	226	TOTAL FLUX(lm)	19139	η UP, DN(C0-180)	0.0, 49.9
NOMINAL FLUX(lm)	19138.8	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	225.3	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	8123	8221	8241	8217	8096	8219	8262	8250	0- 5	194.5	194.5	1.02,1.02
10	8398	8485	8472	8510	8368	8491	8514	8571	5- 10	598.2	792.7	4.14,4.14
15	8736	8763	8703	8840	8707	8788	8766	8917	10- 15	1026	1819	9.5,9.5
20	9067	9031	8944	9147	9034	9079	9027	9234	15- 20	1475	3294	17.2,17.2
25	9368	9144	9185	9290	9313	9268	9288	9343	20- 25	1930	5224	27.3,27.3
30	9510	8970	9425	9192	9469	9205	9549	9162	25- 30	2367	7591	39.7,39.7
35	8947	8377	7878	8713	9100	8745	7937	8537	30- 35	2663	10254	53.6,53.6
40	7147	7093	6330	7509	7621	7569	6325	7138	35- 40	2590	12844	67.1,67.1
45	4469	4801	4782	5089	5081	5170	4712	4700	40- 45	2137	14981	78.3,78.3
50	2287	2755	3518	2899	2652	2984	3471	2617	45- 50	1479	16460	86,86
55	1306	1235	2253	1250	1426	1303	2230	1173	50- 55	939.8	17400	90.9,90.9
60	965.6	894.5	988.7	907.1	1016	951.2	989.4	858.2	55- 60	608.2	18008	94.1,94.1
65	792.6	608.2	793.6	614.8	816.2	656.9	798.1	587.4	60- 65	412.1	18420	96.2,96.2
70	631.1	411.3	598.5	412.4	686.1	448.2	606.8	400.0	65- 70	320.7	18741	97.9,97.9
75	337.8	277.9	403.4	285.2	413.3	309.0	415.5	270.5	70- 75	237.8	18979	99.2,99.2
80	114.0	133.0	0	146.5	197.8	154.9	0	131.3	75- 80	133.2	19112	99.9,99.9
85	4.204	0	0	0	13.84	0	0	0	80- 85	26.08	19138	100,100
90	2.755	0	0	0	3.267	0	0	0	85- 90	0.8643	19139	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			

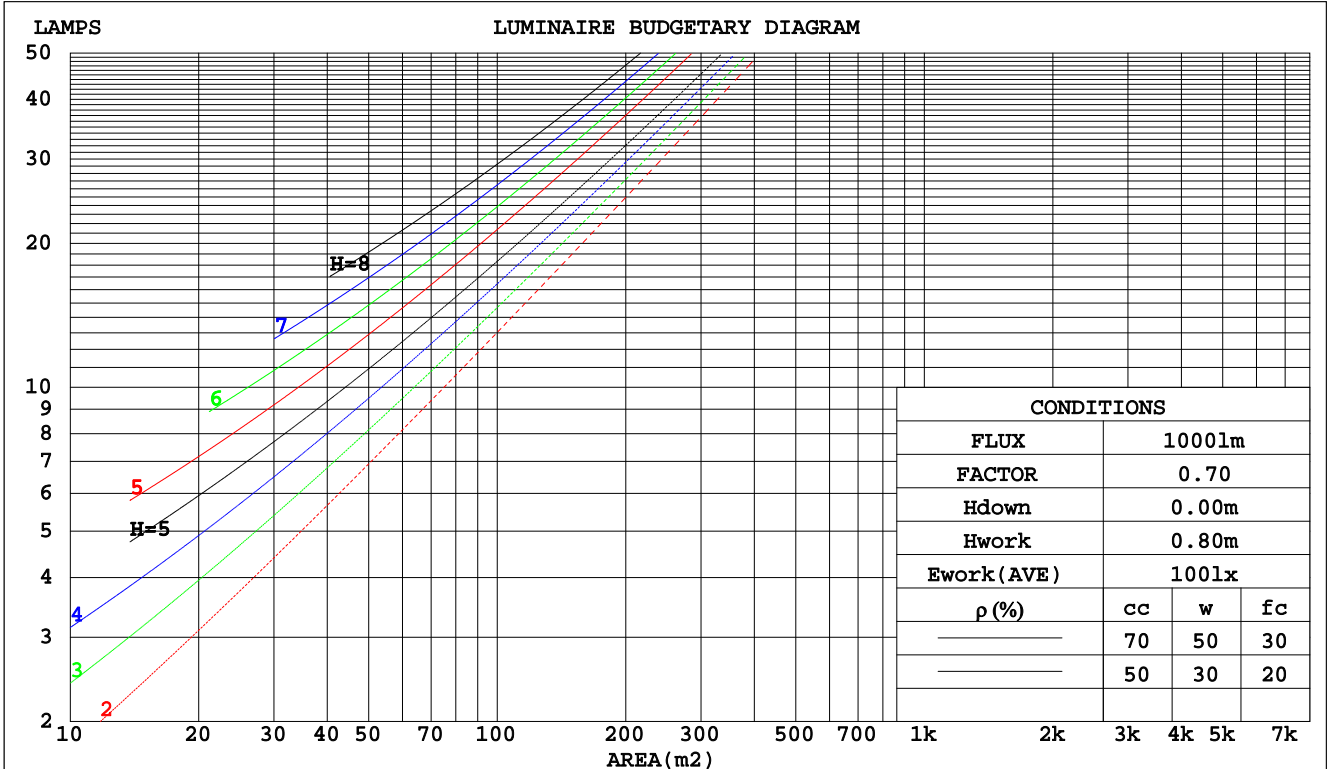
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.84	.78	.74	.81	.77	.73	.79	.75	.72	.70
4.0	.80	.72	.67	.78	.72	.66	.76	.70	.66	.74	.69	.65	.72	.68	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.68	.62	.58	.66	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.53	.64	.57	.52	.62	.56	.52	.60	.55	.51	.50
7.0	.61	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.45
8.0	.56	.48	.43	.55	.48	.43	.54	.47	.43	.53	.47	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.39	.48	.42	.38	.37
10.0	.48	.40	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: QC
 Test Date: 2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity: 65.0%
 Test Distance: 7.165m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.232	.132	.042	.225	.128	.041	.212	.122	.039	.200	.115	.037	.189	.110	.035	
2.0	.226	.124	.038	.220	.121	.037	.209	.116	.036	.199	.111	.035	.189	.107	.034	
3.0	.215	.115	.034	.210	.113	.034	.201	.109	.033	.192	.105	.032	.183	.101	.031	
4.0	.204	.106	.031	.200	.104	.031	.191	.101	.030	.183	.098	.030	.176	.096	.029	
5.0	.193	.098	.029	.189	.097	.028	.182	.095	.028	.175	.092	.027	.168	.090	.027	
6.0	.183	.092	.026	.179	.090	.026	.172	.088	.026	.166	.086	.025	.160	.084	.025	
7.0	.173	.086	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024	.153	.079	.023	
8.0	.164	.080	.023	.161	.079	.022	.156	.078	.022	.151	.076	.022	.146	.075	.022	
9.0	.156	.075	.021	.153	.075	.021	.148	.073	.021	.144	.072	.021	.139	.071	.020	
10.0	.148	.071	.020	.146	.070	.020	.141	.069	.020	.137	.068	.019	.133	.067	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.175	.157	.141	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.138	.089	.053	.119	.077	.046	.082	.054	.032	.047	.032	.019	.015	.010	.006	
6.0	.132	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.103	.059	.027	.071	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm										
NAME:UFO 160W LED HIGH BAY LIGHT					TYPE:IP65			WEIGHT:		
DIM.:					SPEC.:PHILIPS 3030			SERIAL No.:		
MFR.: QINHAN LIGHTING					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	28.2	29.4	28.4	29.6	29.8	28.9	30.2	29.1	30.3	30.5
3H	28.5	29.7	28.8	29.9	30.1	29.2	30.3	29.4	30.5	30.8
4H	28.6	29.7	28.9	30.0	30.2	29.3	30.4	29.6	30.6	30.9
6H	28.6	29.7	28.9	29.9	30.2	29.2	30.3	29.6	30.5	30.8
8H	28.6	29.6	28.9	29.8	30.1	29.2	30.2	29.5	30.5	30.7
12H	28.5	29.5	28.9	29.8	30.1	29.2	30.1	29.5	30.4	30.7
4H 2H	28.1	29.2	28.4	29.4	29.7	28.8	29.9	29.1	30.1	30.3
3H	28.6	29.5	28.9	29.8	30.1	29.2	30.1	29.5	30.4	30.7
4H	28.8	29.7	29.2	30.0	30.3	29.4	30.3	29.8	30.6	30.9
6H	28.9	29.6	29.3	30.0	30.3	29.4	30.1	29.8	30.5	30.8
8H	28.9	29.5	29.3	29.9	30.3	29.4	30.0	29.8	30.4	30.8
12H	28.8	29.4	29.2	29.8	30.2	29.3	29.9	29.7	30.3	30.7
8H 4H	28.8	29.5	29.2	29.8	30.2	29.4	30.1	29.8	30.4	30.8
6H	28.9	29.5	29.3	29.9	30.3	29.4	29.9	29.8	30.3	30.8
8H	28.9	29.4	29.4	29.8	30.3	29.3	29.8	29.8	30.2	30.7
12H	28.9	29.3	29.3	29.7	30.2	29.3	29.7	29.8	30.2	30.6
12H 4H	28.7	29.4	29.2	29.8	30.1	29.3	30.0	29.7	30.3	30.7
6H	28.9	29.4	29.3	29.8	30.2	29.3	29.8	29.8	30.3	30.7
8H	28.9	29.3	29.3	29.7	30.2	29.3	29.7	29.8	30.2	30.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 2.5					+ 1.2 / - 1.6				
1.5H	+ 2.1 / - 2.2					+ 1.2 / - 1.6				
2.0H	+ 3.5 / - 2.1					+ 2.9 / - 2.8				

CIE Pub.117 Corrected 19139 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.3)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

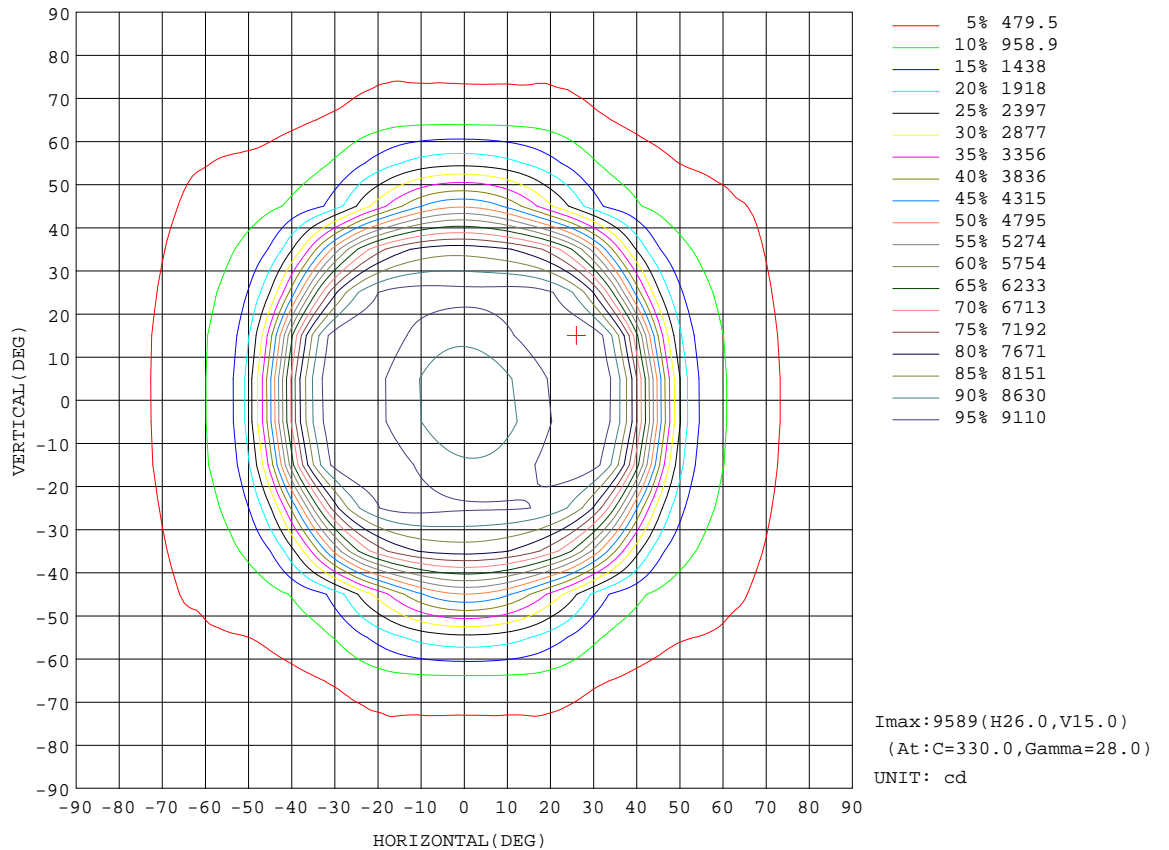
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	61	56	70	61	56	69	61	56	51
0.80	80	72	66	80	71	66	78	70	65	60
1.00	88	80	74	87	79	74	85	80	73	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	96	91	98	94	90	84
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	111	106	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
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:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

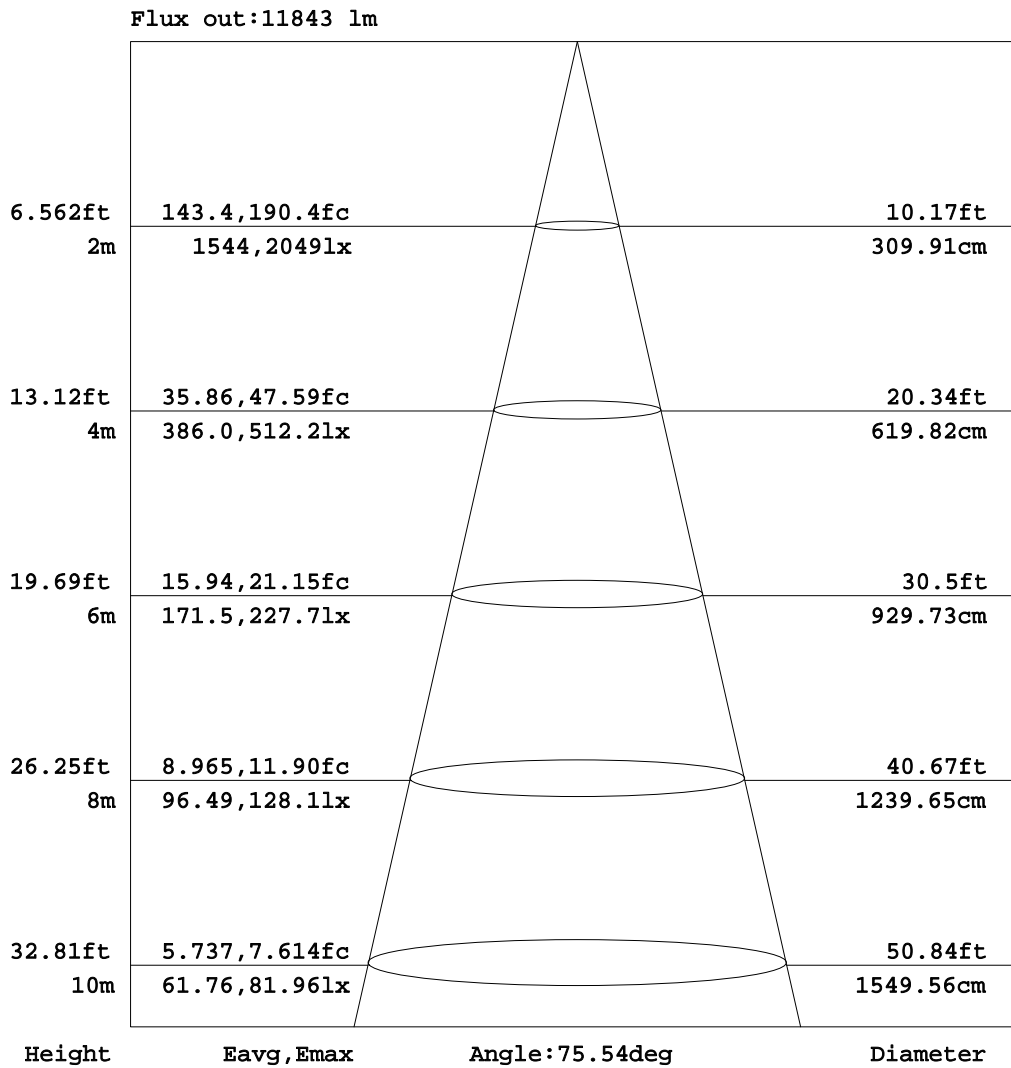


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

AAI Figure

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



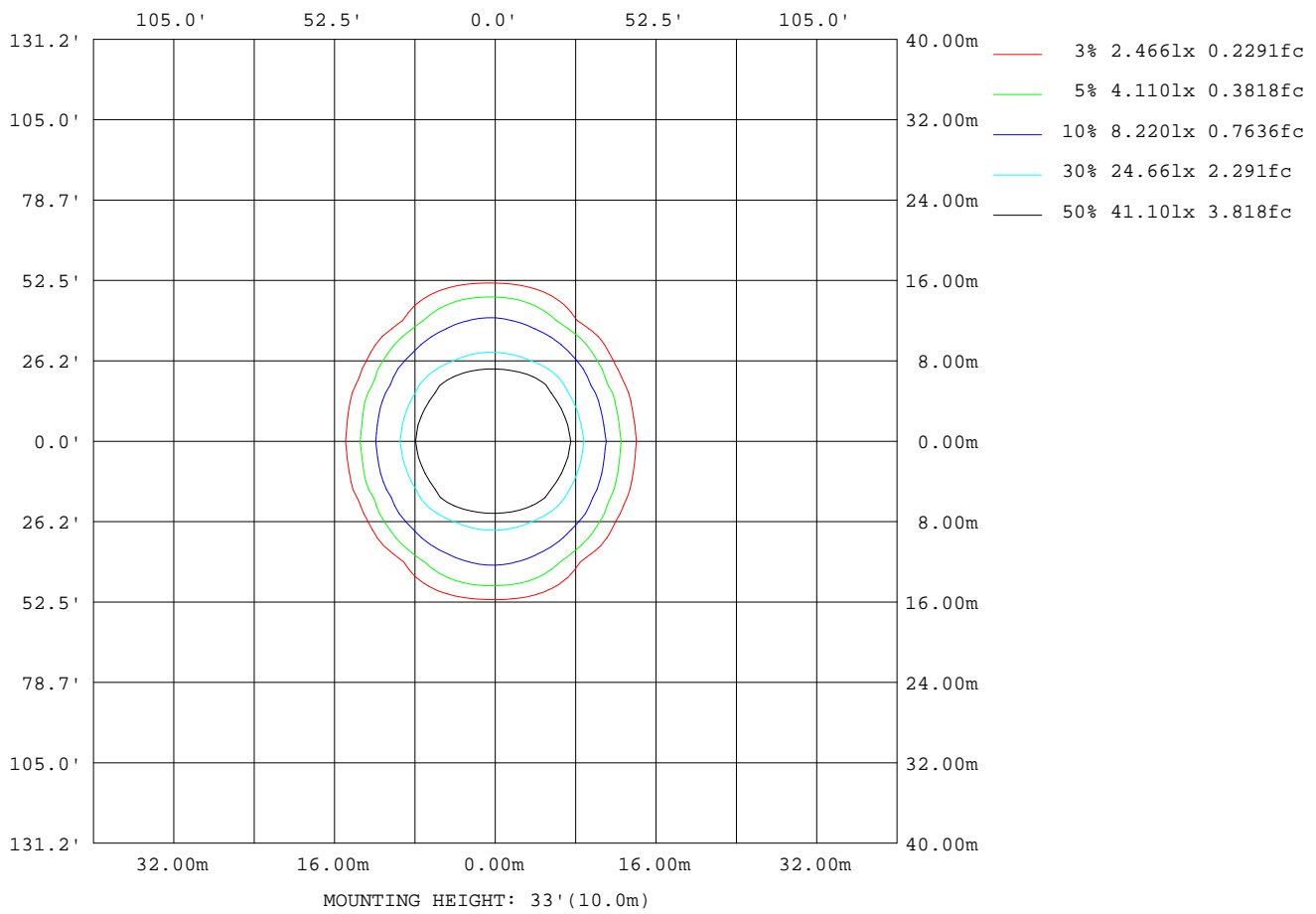
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

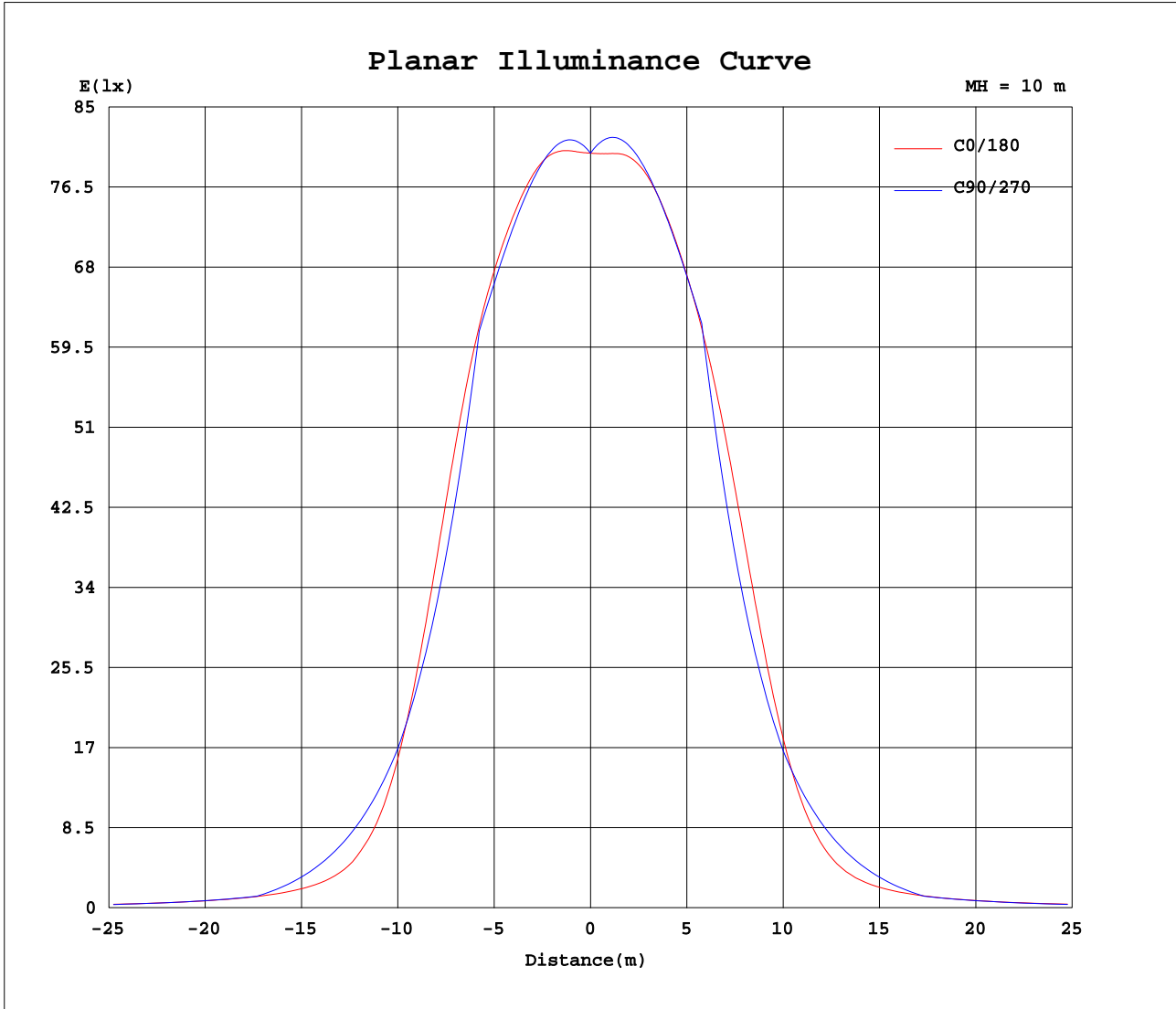
Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: QC
 Test Date: 2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity: 65.0%
 Test Distance: 7.165m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010
5	8123	8140	8155	8169	8181	8192	8201	8208	8215	8221	8225	8229	8233	8235	8237	8239	8240	8241	8241
10	8398	8424	8445	8461	8473	8481	8486	8488	8488	8485	8483	8479	8476	8473	8471	8469	8469	8471	8472
15	8736	8764	8785	8798	8805	8806	8801	8791	8778	8763	8747	8732	8718	8707	8700	8695	8695	8698	8703
20	9067	9093	9109	9117	9118	9112	9100	9082	9058	9031	8994	8961	8940	8929	8925	8926	8931	8937	8944
25	9368	9375	9375	9372	9366	9358	9346	9328	9217	9144	9105	9088	9089	9101	9120	9140	9159	9174	9185
30	9510	9449	9405	9389	9394	9415	9309	9115	9006	8970	8988	9043	9114	9191	9264	9326	9377	9410	9425
35	8947	8773	8686	8691	8777	8685	8440	8308	8291	8377	8544	8752	8537	8306	8128	8002	7923	7883	7878
40	7147	6897	6826	6919	7017	6820	6726	6753	6922	7093	6948	6768	6581	6439	6353	6316	6307	6316	6330
45	4469	4265	4268	4457	4461	4445	4455	4609	4781	4801	4730	4640	4534	4470	4496	4575	4668	4741	4782
50	2287	2191	2214	2329	2394	2431	2485	2679	2806	2755	2607	2489	2654	2900	3125	3303	3421	3488	3518
55	1306	1287	1318	1345	1381	1383	1430	1491	1443	1235	1359	1573	1821	1992	2119	2202	2237	2248	2253
60	966	960	976	982	993	963	923	842	850	895	941	1023	1117	1177	1189	1149	1076	1014	989
65	793	788	779	778	746	706	662	618	606	608	620	624	657	724	787	812	806	800	794
70	631	610	593	580	553	524	488	431	400	411	428	454	491	552	602	621	607	604	598
75	338	334	351	361	378	365	340	286	268	278	281	292	327	389	425	433	409	409	403
80	114	116	129	159	189	185	164	142	139	133	111	89.4	77.7	69.1	49.4	28.7	12.1	3.04	0.00
85	4.20	5.81	11.3	23.5	15.2	15.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010
5	8242	8241	8240	8238	8235	8233	8228	8223	8217	8209	8200	8191	8179	8166	8151	8134	8116	8096	8116
10	8476	8480	8485	8489	8494	8500	8505	8509	8510	8510	8507	8500	8489	8474	8455	8431	8402	8368	8398
15	8713	8725	8739	8756	8775	8794	8812	8828	8840	8847	8850	8847	8840	8826	8807	8781	8748	8707	8742
20	8954	8966	8982	9003	9028	9057	9087	9121	9147	9157	9162	9162	9157	9146	9129	9105	9074	9034	9072
25	9192	9198	9206	9215	9226	9236	9249	9264	9290	9336	9411	9410	9405	9396	9384	9366	9343	9313	9347
30	9427	9418	9404	9384	9356	9320	9274	9226	9192	9199	9274	9431	9517	9481	9454	9441	9450	9469	9462
35	7905	7972	8088	8263	8503	8807	9098	8895	8713	8593	8577	8685	8930	9032	8939	8916	8972	9100	8999
40	6342	6362	6401	6478	6611	6812	7060	7309	7509	7306	7092	7059	7197	7480	7413	7319	7386	7621	7425
45	4772	4722	4648	4588	4586	4682	4849	4990	5089	5083	4904	4754	4806	4930	5015	4833	4846	5081	4883
50	3508	3458	3353	3183	2960	2721	2595	2739	2899	2954	2833	2634	2645	2681	2678	2587	2537	2652	2551
55	2256	2253	2227	2154	2036	1881	1635	1405	1250	1492	1557	1497	1435	1472	1454	1431	1398	1426	1405
60	1010	1069	1148	1204	1205	1156	1056	958	907	864	852	934	978	1008	1013	1020	1008	1016	1014
65	795	803	808	801	745	678	633	625	615	610	617	657	717	756	792	807	818	816	823
70	601	610	615	621	575	516	468	433	412	402	423	482	530	564	610	631	665	686	687
75	407	418	425	443	409	357	304	288	285	279	285	335	394	432	436	418	420	413	429
80	3.03	12.4	28.2	51.1	73.0	87.2	94.3	116	146	163	164	183	217	254	243	226	194	198	204
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.5	37.8	45.9	37.6	22.9	13.8	24.2
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010
5	8133	8150	8165	8179	8190	8201	8210	8219	8226	8233	8239	8244	8249	8253	8256	8260	8262	8264	8265
10	8423	8443	8459	8471	8480	8486	8490	8491	8492	8493	8492	8494	8496	8499	8503	8508	8514	8521	8529
15	8769	8789	8802	8808	8809	8805	8798	8788	8777	8765	8755	8748	8743	8743	8747	8755	8766	8781	8799
20	9101	9121	9133	9136	9132	9120	9102	9079	9052	9032	9021	9016	9014	9015	9018	9022	9027	9035	9048
25	9372	9392	9405	9411	9410	9400	9318	9268	9244	9239	9244	9257	9272	9284	9291	9292	9288	9282	9278
30	9465	9484	9515	9550	9460	9298	9217	9205	9238	9296	9364	9431	9491	9535	9561	9565	9549	9522	9489
35	8968	9013	9122	9019	8760	8634	8636	8745	8925	9135	8863	8581	8357	8190	8068	7986	7937	7925	7960
40	7394	7520	7610	7338	7199	7213	7395	7569	7353	7106	6866	6673	6545	6464	6407	6366	6325	6283	6255
45	4910	5138	5062	4957	4932	5093	5215	5170	5043	4904	4746	4652	4642	4681	4722	4738	4712	4631	4516
50	2623	2739	2759	2744	2761	2974	3078	2984	2789	2647	2791	3025	3232	3382	3463	3490	3471	3408	3300
55	1445	1480	1511	1486	1566	1639	1563	1303	1450	1671	1924	2077	2191	2253	2265	2252	2230	2203	2165
60	1034	1039	1049	1027	995	911	917	951	1000	1086	1180	1224	1223	1168	1085	1018	989	1006	1060
65	823	823	797	763	716	674	658	657	664	662	694	756	813	827	818	807	798	797	802
70	657	644	619	580	540	480	443	448	465	487	527	585	633	638	624	616	607	606	613
75	437	445	457	428	390	333	307	309	308	317	360	423	460	452	429	424	415	416	423
80	227	252	272	253	219	188	174	155	123	98.1	87.1	76.2	54.0	30.1	12.7	3.16	0.00	3.10	12.5
85	40.1	55.4	54.1	37.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:225.2V I:0.7341A P:161.1W PF:0.9745 Lamp Flux:19138.8x1 lm		
NAME:UFO 160W LED HIGH BAY LIGHT	TYPE:IP65	WEIGHT:
DIM.:	SPEC.:PHILIPS 3030	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010	8010				
5	8266	8266	8264	8263	8259	8255	8250	8243	8234	8224	8212	8198	8182	8164	8144				
10	8537	8546	8555	8562	8568	8571	8571	8569	8563	8553	8539	8521	8497	8469	8436				
15	8820	8841	8862	8881	8897	8909	8917	8920	8918	8911	8898	8879	8854	8822	8783				
20	9065	9087	9113	9142	9174	9210	9234	9238	9236	9230	9218	9202	9179	9150	9113				
25	9278	9282	9288	9293	9300	9314	9343	9400	9494	9485	9473	9458	9441	9420	9398				
30	9458	9425	9384	9330	9266	9201	9162	9174	9267	9449	9540	9489	9456	9448	9470				
35	8054	8215	8444	8730	8987	8746	8537	8404	8383	8499	8750	8837	8725	8701	8778				
40	6256	6308	6424	6608	6828	7021	7138	6887	6660	6616	6731	6965	6864	6774	6867				
45	4387	4292	4282	4385	4529	4650	4700	4592	4310	4206	4251	4287	4298	4158	4211				
50	3135	2910	2654	2386	2262	2470	2617	2620	2461	2246	2257	2265	2220	2145	2163				
55	2102	1992	1850	1663	1443	1257	1173	1353	1377	1332	1303	1324	1309	1298	1279				
60	1126	1157	1138	1067	977	898	858	816	812	879	925	962	965	969	958				
65	806	794	739	673	628	601	587	587	590	630	680	725	765	773	785				
70	618	618	577	517	461	420	400	388	399	450	495	533	576	589	604				
75	433	446	421	359	301	279	270	258	256	295	344	375	376	349	339				
80	28.8	51.9	75.5	87.9	94.0	111	131	136	129	144	168	174	151	129	112				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4	10.6	19.0	7.80	4.93				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:QC
 Test Date:2016-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.165m [K=1.0000]
 Remarks: