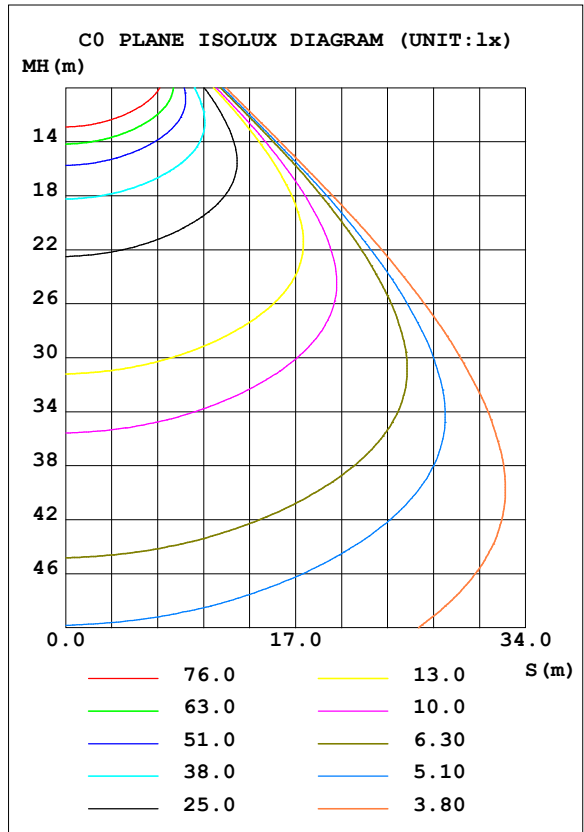
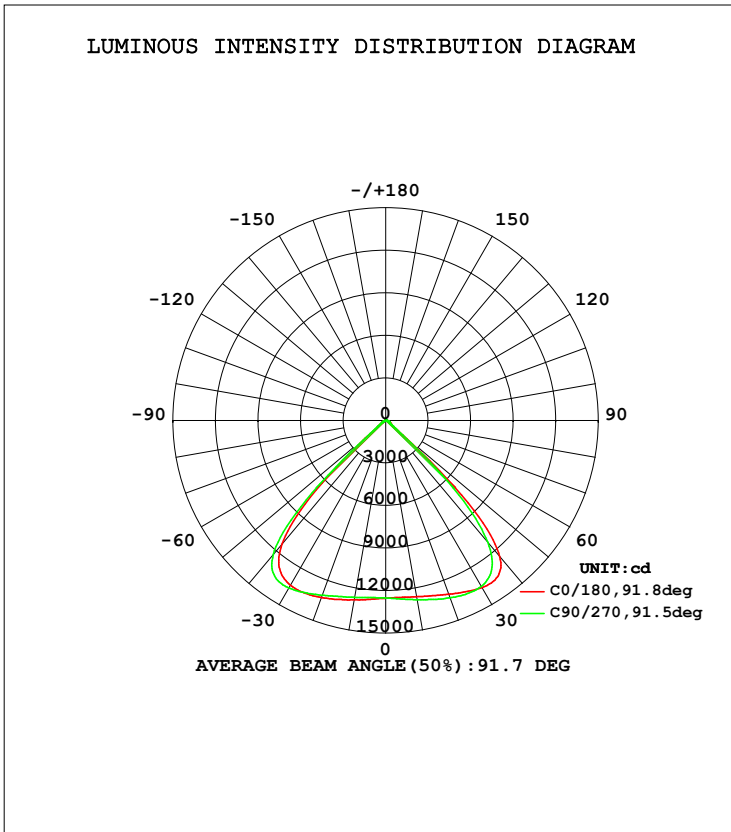


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.41 lm/W			
MODEL	3030 40P7S 5700K	I <sub>max</sub> (cd)	13691	S/MH (C0/180)	1.40
NOMINAL POWER (W)	180	LOR (%)	100.0	S/MH (C90/270)	1.35
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	25562	η UP, DN (C0-180)	0.1, 49.4
NOMINAL FLUX (lm)	25561.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 50.3
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.7	η down (%)	99.7	CIBSE SHR MAX	1.35



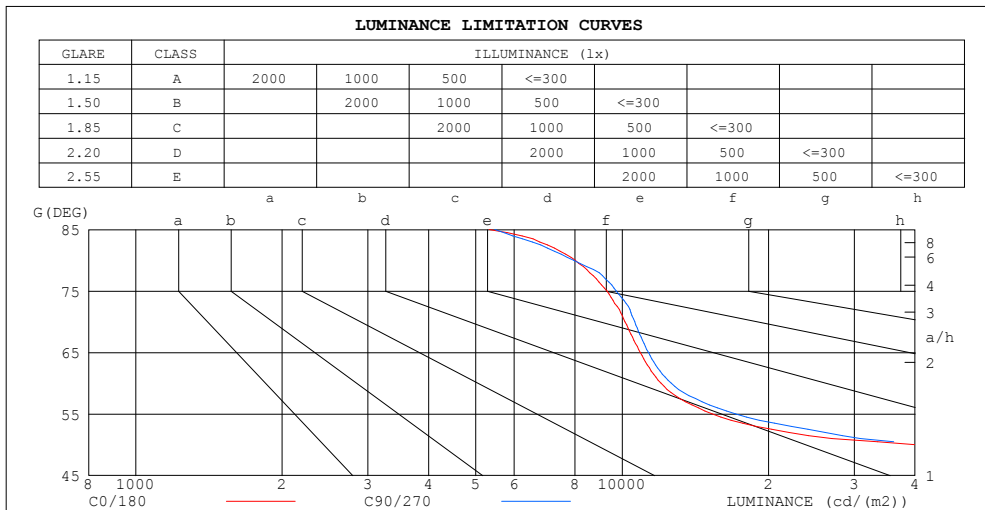
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	1253	1260	1264	1267	1266	1261	1253	1252	0- 5	300.3	300.3	1.17,1.17
10	1261	1275	1283	1285	1285	1277	1267	1261	5- 10	906.7	1207	4.72,4.72
15	1279	1297	1306	1308	1306	1298	1286	1279	10- 15	1525	2732	10.7,10.7
20	1304	1323	1331	1330	1329	1322	1312	1303	15- 20	2155	4887	19.1,19.1
25	1333	1349	1349	1344	1345	1345	1341	1332	20- 25	2794	7681	30.1,30.1
30	1360	1364	1350	1335	1343	1358	1365	1359	25- 30	3419	11101	43.4,43.4
35	1359	1339	1299	1279	1298	1335	1354	1353	30- 35	3964	15064	58.9,58.9
40	1252	1184	1120	1103	1139	1208	1232	1217	35- 40	4232	19297	75.5,75.5
45	824.4	720.0	675.2	678.5	698.1	792.1	792.0	738.5	40- 45	3658	22955	89.8,89.8
50	134.6	109.1	141.1	168.8	120.7	146.7	142.1	129.2	45- 50	1593	24548	96,96
55	46.11	43.23	52.09	71.89	48.72	47.63	52.20	52.89	50- 55	348.1	24897	97.4,97.4
60	31.54	30.89	33.49	40.88	31.35	30.14	32.63	32.67	55- 60	189.1	25086	98.1,98.1
65	24.17	24.21	25.41	27.72	22.89	22.60	23.67	23.95	60- 65	137.7	25223	98.7,98.7
70	18.19	18.40	19.26	19.98	16.94	16.98	17.40	17.75	65- 70	107.3	25331	99.1,99.1
75	12.63	13.05	13.35	13.48	11.61	11.94	11.77	11.79	70- 75	80.20	25411	99.4,99.4
80	7.293	7.550	7.328	6.296	6.482	6.821	6.110	5.294	75- 80	50.88	25462	99.6,99.6
85	2.435	1.772	2.532	2.326	2.093	1.891	1.839	1.580	80- 85	23.21	25485	99.7,99.7
90	0.0436	0.0396	0.0442	0.0404	0.0382	0.0440	0.0386	0.0416	85- 90	3.555	25488	99.7,99.7
95	0.0420	0.0423	0.0425	0.0432	0.0415	0.0401	0.0425	0.0427	90- 95	0.2242	25489	99.7,99.7
100	0.0523	0.0539	0.0535	0.0532	0.0518	0.0483	0.0541	0.0576	95-100	0.2554	25489	99.7,99.7
105	0.0720	0.0736	0.0750	0.0743	0.0808	0.0747	0.0823	0.0925	100-105	0.3394	25489	99.7,99.7
110	0.1455	0.1528	0.1542	0.1468	0.1910	0.1778	0.1777	0.1931	105-110	0.5972	25490	99.7,99.7
115	0.3185	0.3455	0.3426	0.3295	0.4217	0.3842	0.3786	0.3962	110-115	1.298	25491	99.7,99.7
120	0.5841	0.6295	0.6288	0.6081	0.7407	0.6869	0.6747	0.6920	115-120	2.440	25494	99.7,99.7
125	0.9227	0.9850	0.9859	0.9610	1.120	1.061	1.038	1.054	120-125	3.828	25497	99.7,99.7
130	1.334	1.406	1.408	1.376	1.553	1.484	1.455	1.472	125-130	5.302	25503	99.8,99.8
135	1.772	1.858	1.860	1.832	1.997	1.922	1.908	1.919	130-135	6.699	25509	99.8,99.8
140	2.163	2.258	2.263	2.236	2.361	2.309	2.324	2.320	135-140	7.738	25517	99.8,99.8
145	2.437	2.528	2.530	2.513	2.613	2.578	2.600	2.604	140-145	8.090	25525	99.9,99.9
150	2.699	2.783	2.779	2.764	2.859	2.830	2.859	2.873	145-150	7.867	25533	99.9,99.9
155	3.071	3.152	3.145	3.128	3.196	3.154	3.178	3.189	150-155	7.530	25541	99.9,99.9
160	3.439	3.509	3.504	3.487	3.503	3.470	3.483	3.486	155-160	6.971	25548	99.9,99.9
165	3.639	3.685	3.685	3.678	3.679	3.663	3.682	3.684	160-165	5.915	25554	100,100
170	3.762	3.794	3.793	3.794	3.798	3.765	3.768	3.772	165-170	4.421	25558	100,100
175	3.826	3.840	3.838	3.845	3.847	3.832	3.841	3.843	170-175	2.731	25561	100,100
180	3.916	3.929	3.926	3.934	3.930	3.907	3.915	3.923	175-180	0.9222	25562	100,100
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm			



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5325	5475
80	8006	7953
75	9304	9721
70	10136	10612
65	10901	11332
60	12023	12624
55	15323	17114
50	39913	41379
45	222232	179953

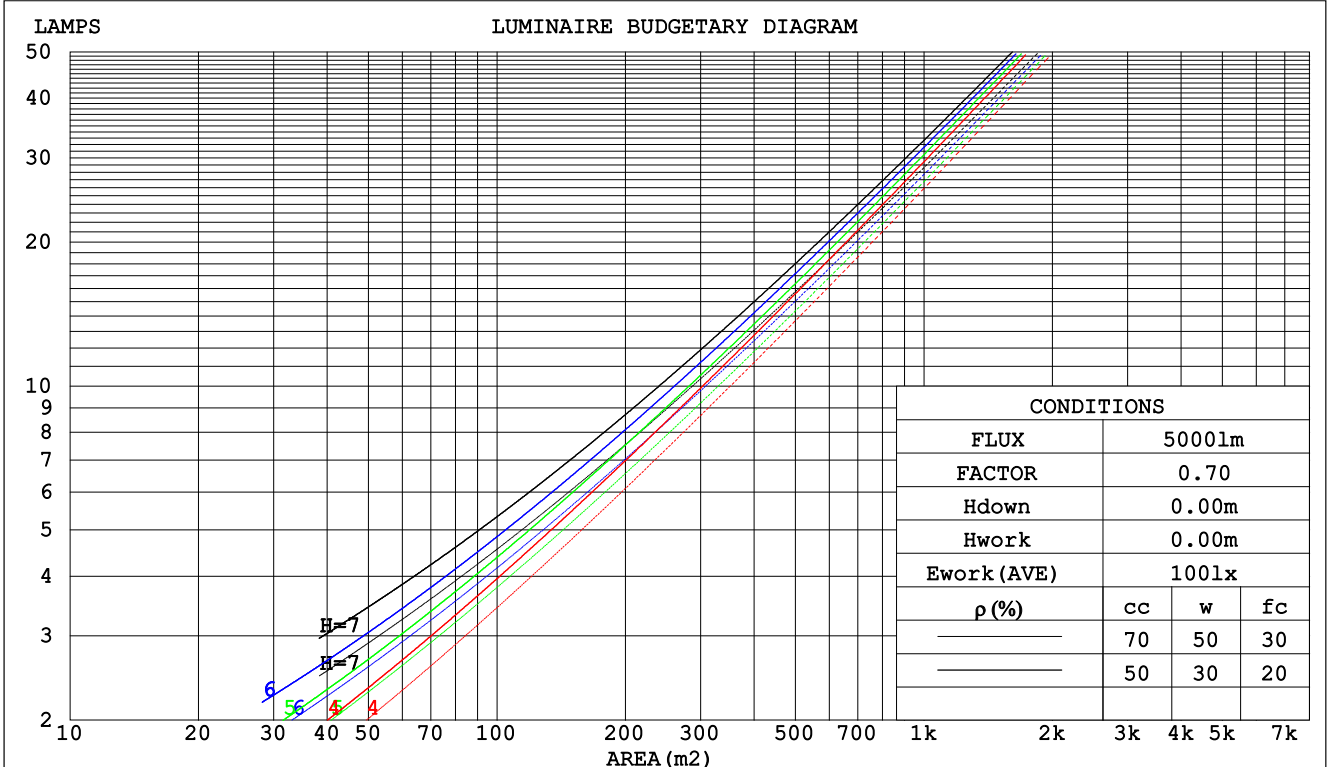
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	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															
	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	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	.99	.95	.91	.98	.93	.90	.94	.91	.88	.91	.88	.86	.88	.86	.84	.82
3.0	.91	.85	.80	.89	.84	.79	.87	.82	.78	.84	.80	.77	.82	.78	.75	.74
4.0	.83	.76	.71	.82	.76	.71	.79	.74	.70	.77	.73	.69	.75	.71	.68	.66
5.0	.76	.69	.64	.75	.68	.63	.73	.67	.63	.71	.66	.62	.69	.65	.62	.60
6.0	.70	.62	.57	.69	.62	.57	.67	.61	.57	.66	.60	.56	.64	.59	.56	.54
7.0	.64	.57	.52	.63	.56	.52	.62	.56	.51	.61	.55	.51	.59	.54	.51	.49
8.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.44
9.0	.55	.48	.43	.54	.47	.43	.53	.47	.42	.52	.46	.42	.51	.46	.42	.41
10.0	.51	.44	.39	.50	.44	.39	.49	.43	.39	.48	.43	.39	.47	.42	.39	.37



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

WEC AND CCEC

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.210	.119	.038	.203	.116	.037	.190	.109	.035	.178	.103	.033	.167	.097	.031	
2.0	.204	.112	.034	.199	.109	.034	.187	.104	.032	.177	.099	.031	.168	.095	.030	
3.0	.196	.105	.031	.191	.102	.031	.182	.098	.030	.173	.095	.029	.165	.091	.028	
4.0	.188	.098	.029	.183	.096	.028	.175	.093	.028	.167	.090	.027	.160	.087	.026	
5.0	.179	.091	.026	.175	.090	.026	.168	.087	.026	.161	.085	.025	.154	.083	.025	
6.0	.171	.086	.025	.167	.085	.024	.161	.082	.024	.155	.080	.024	.149	.078	.023	
7.0	.163	.081	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	.143	.074	.022	
8.0	.156	.076	.021	.153	.075	.021	.147	.074	.021	.142	.072	.021	.138	.071	.021	
9.0	.149	.072	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	.132	.067	.019	
10.0	.142	.068	.019	.140	.067	.019	.135	.066	.019	.131	.065	.019	.127	.064	.018	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.176	.159	.144	.150	.137	.124	.103	.094	.086	.059	.054	.050	.019	.018	.016	
2.0	.163	.135	.111	.139	.116	.096	.096	.080	.067	.055	.047	.039	.018	.015	.013	
3.0	.153	.116	.087	.131	.100	.075	.090	.070	.053	.052	.041	.031	.017	.013	.010	
4.0	.144	.102	.070	.124	.088	.061	.085	.061	.043	.049	.036	.025	.016	.012	.008	
5.0	.137	.091	.057	.117	.079	.050	.081	.055	.035	.047	.032	.021	.015	.011	.007	
6.0	.130	.082	.048	.112	.071	.041	.077	.050	.029	.045	.029	.017	.014	.010	.006	
7.0	.124	.075	.040	.107	.065	.035	.074	.046	.025	.043	.027	.015	.014	.009	.005	
8.0	.119	.069	.035	.102	.060	.030	.071	.042	.022	.041	.025	.013	.013	.008	.004	
9.0	.114	.064	.030	.098	.056	.027	.068	.039	.019	.040	.023	.011	.013	.008	.004	
10.0	.109	.060	.027	.094	.052	.024	.065	.037	.017	.038	.022	.010	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

## Uncorrected UGR Table

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm										
NAME: Bulkhead Lamp					TYPE:Outdoor			WEIGHT:3		
SPEC.:CP-HB03-0200-N01					DIM.:			SERIAL No.:		
					SUR.:d=0.26			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	27.3	28.5	27.6	28.7	28.9	27.0	28.2	27.3	28.4	28.6
3H	27.2	28.2	27.4	28.4	28.7	26.9	27.9	27.2	28.2	28.4
4H	27.1	28.1	27.4	28.3	28.6	26.8	27.8	27.1	28.0	28.3
6H	27.0	27.9	27.3	28.2	28.5	26.7	27.7	27.0	27.9	28.2
8H	26.9	27.8	27.3	28.1	28.4	26.7	27.6	27.0	27.9	28.1
12H	26.9	27.8	27.2	28.0	28.3	26.6	27.5	27.0	27.8	28.1
4H 2H	27.0	28.1	27.3	28.3	28.5	26.8	27.8	27.1	28.0	28.2
3H	26.9	27.8	27.2	28.0	28.3	26.6	27.5	27.0	27.8	28.1
4H	26.8	27.6	27.2	27.9	28.2	26.6	27.3	26.9	27.7	28.0
6H	26.8	27.4	27.1	27.8	28.1	26.5	27.2	26.9	27.5	27.9
8H	26.7	27.3	27.1	27.7	28.1	26.5	27.1	26.9	27.4	27.8
12H	26.7	27.2	27.1	27.6	28.0	26.4	27.0	26.8	27.4	27.8
8H 4H	26.7	27.3	27.1	27.7	28.1	26.4	27.1	26.8	27.4	27.8
6H	26.6	27.1	27.1	27.5	28.0	26.4	26.9	26.8	27.3	27.7
8H	26.6	27.0	27.1	27.5	27.9	26.3	26.8	26.8	27.2	27.7
12H	26.6	26.9	27.0	27.4	27.9	26.3	26.7	26.8	27.1	27.6
12H 4H	26.7	27.2	27.1	27.6	28.0	26.4	27.0	26.8	27.3	27.7
6H	26.6	27.0	27.0	27.5	27.9	26.3	26.8	26.8	27.2	27.7
8H	26.6	26.9	27.0	27.4	27.9	26.3	26.7	26.8	27.1	27.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / -10.8					+ 2.9 / -10.1				
1.5H	+ 3.6 / -11.3					+ 3.6 / -10.5				
2.0H	+ 8.5 / - 7.9					+ 7.5 / - 6.9				

CIE Pub.117 Corrected 25562 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.3)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

## UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:

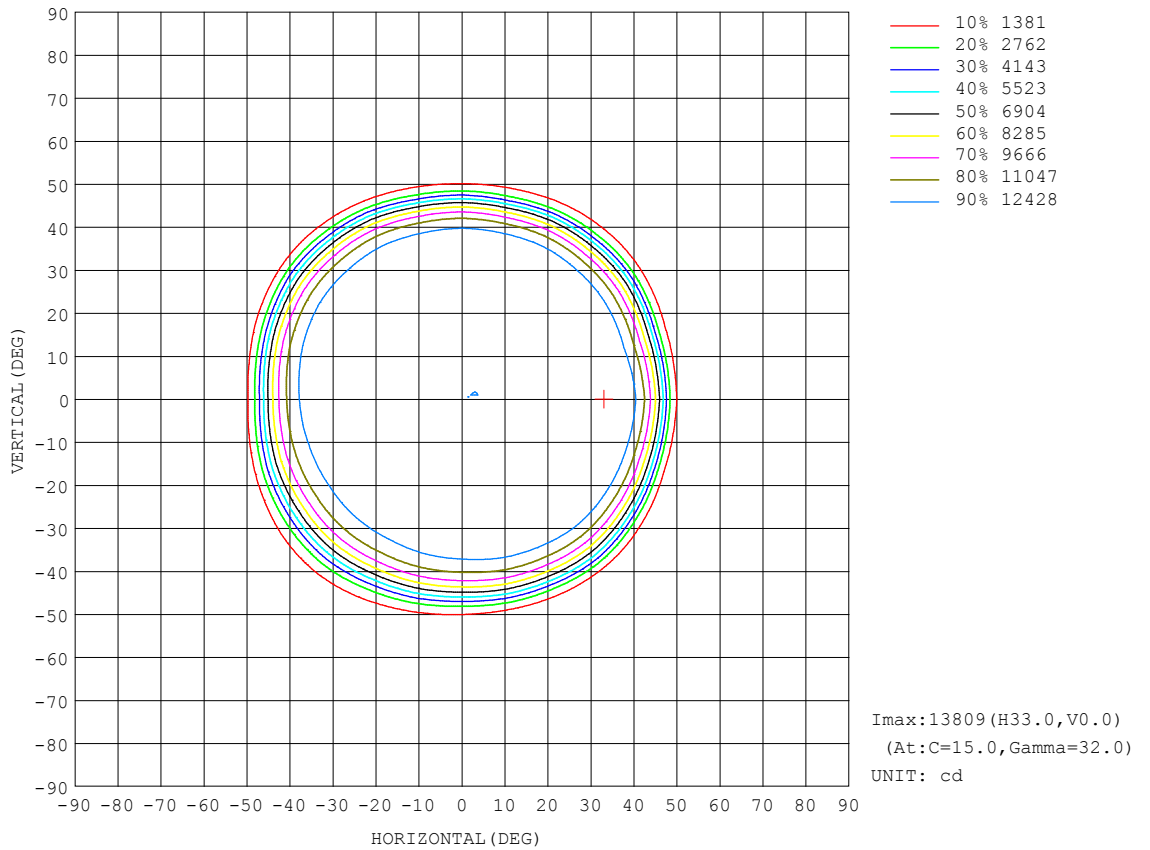
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	68	63	76	68	63	75	67	63	58
0.80	85	78	73	85	77	72	83	76	72	67
1.00	92	85	80	91	84	80	89	85	79	74
1.25	98	91	86	96	90	86	94	89	85	80
1.50	101	95	91	100	94	90	97	93	89	84
2.00	105	100	96	104	99	95	101	97	94	88
2.50	107	103	99	106	101	98	102	99	96	90
3.00	109	105	102	108	104	101	104	101	98	92
4.00	112	108	105	110	107	104	106	103	101	94
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

ISOCANDELA DIAGRAM

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:

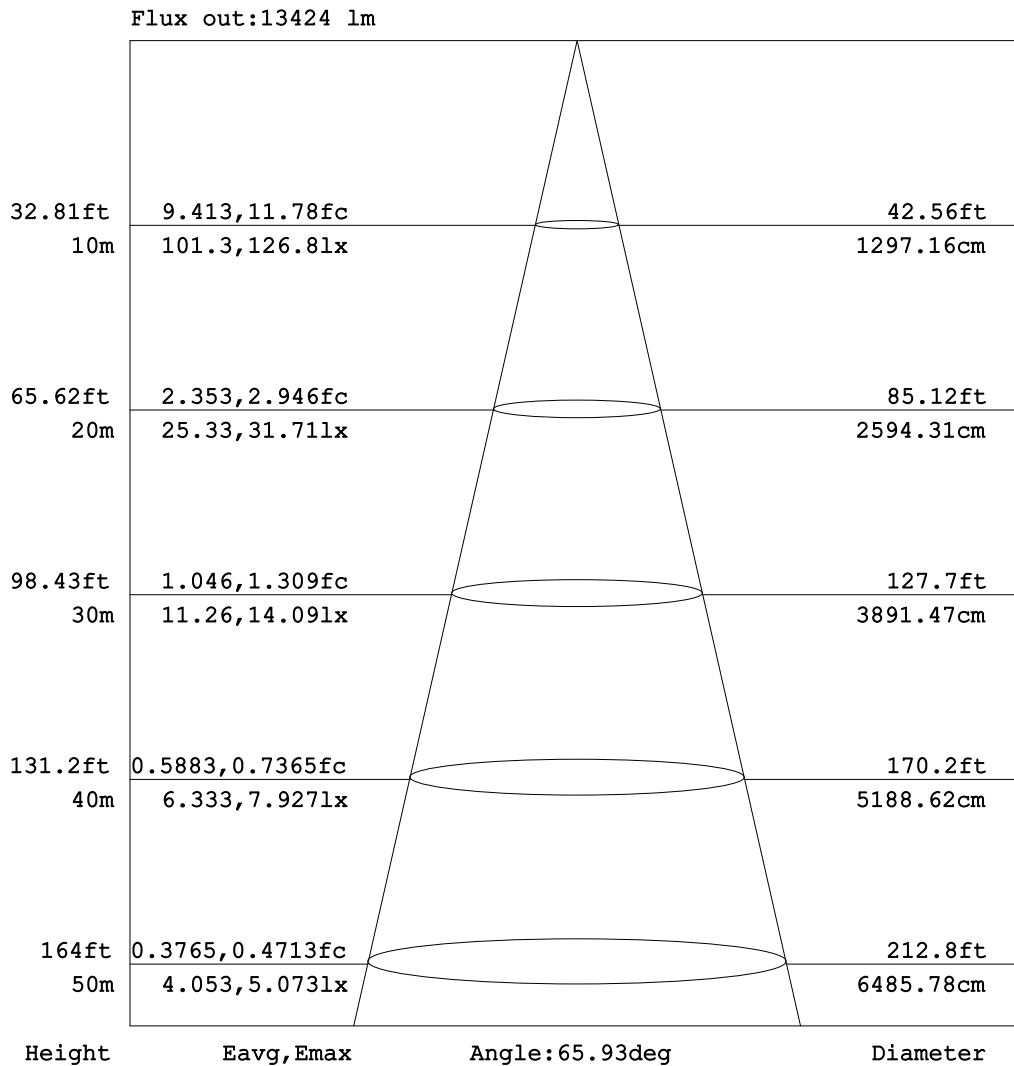


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

AAI Figure

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:



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

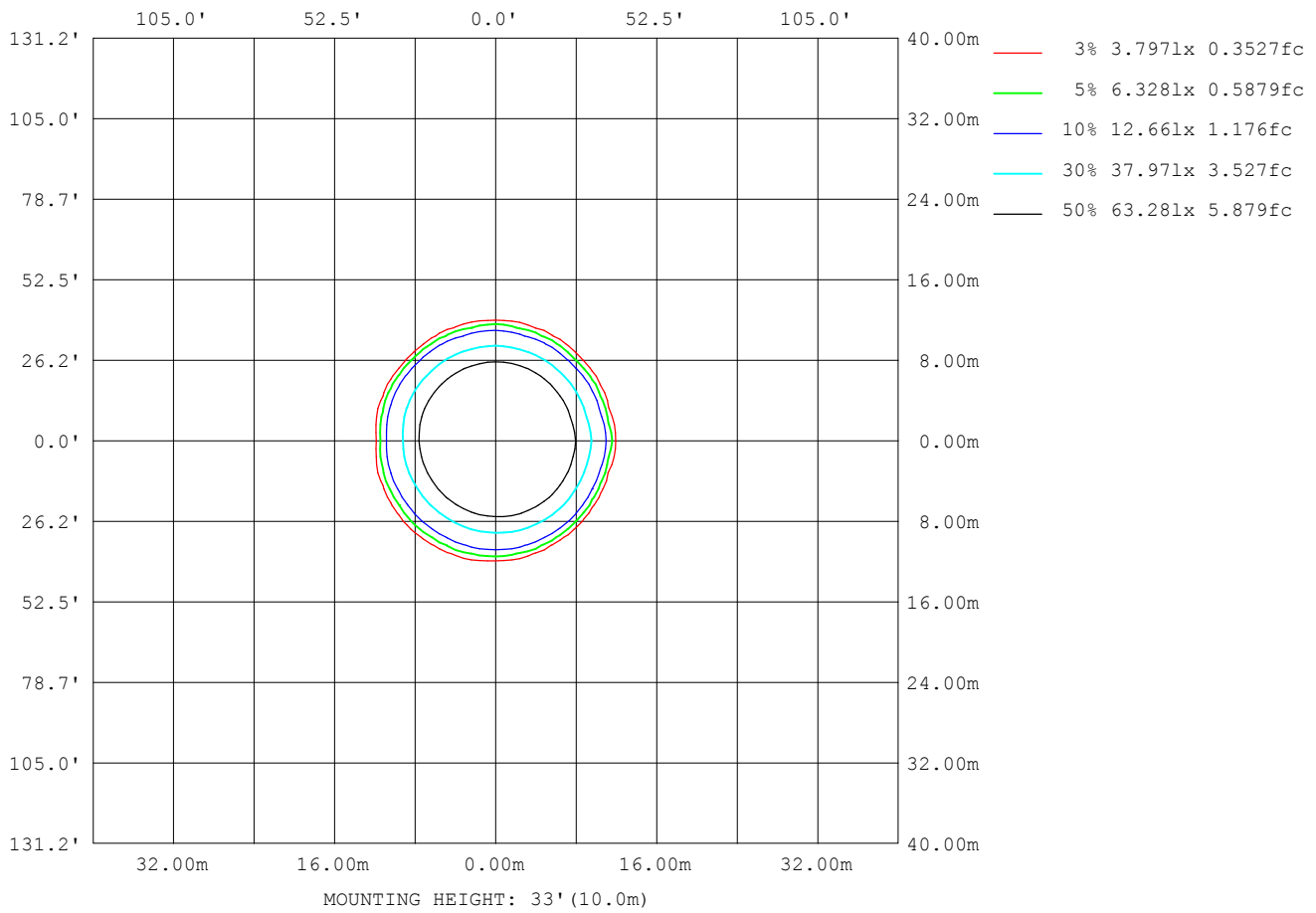
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity: 65.0%  
 Test Distance: 9.300m [K=1.0000]  
 Remarks: 90°



ISOLUX DIAGRAM

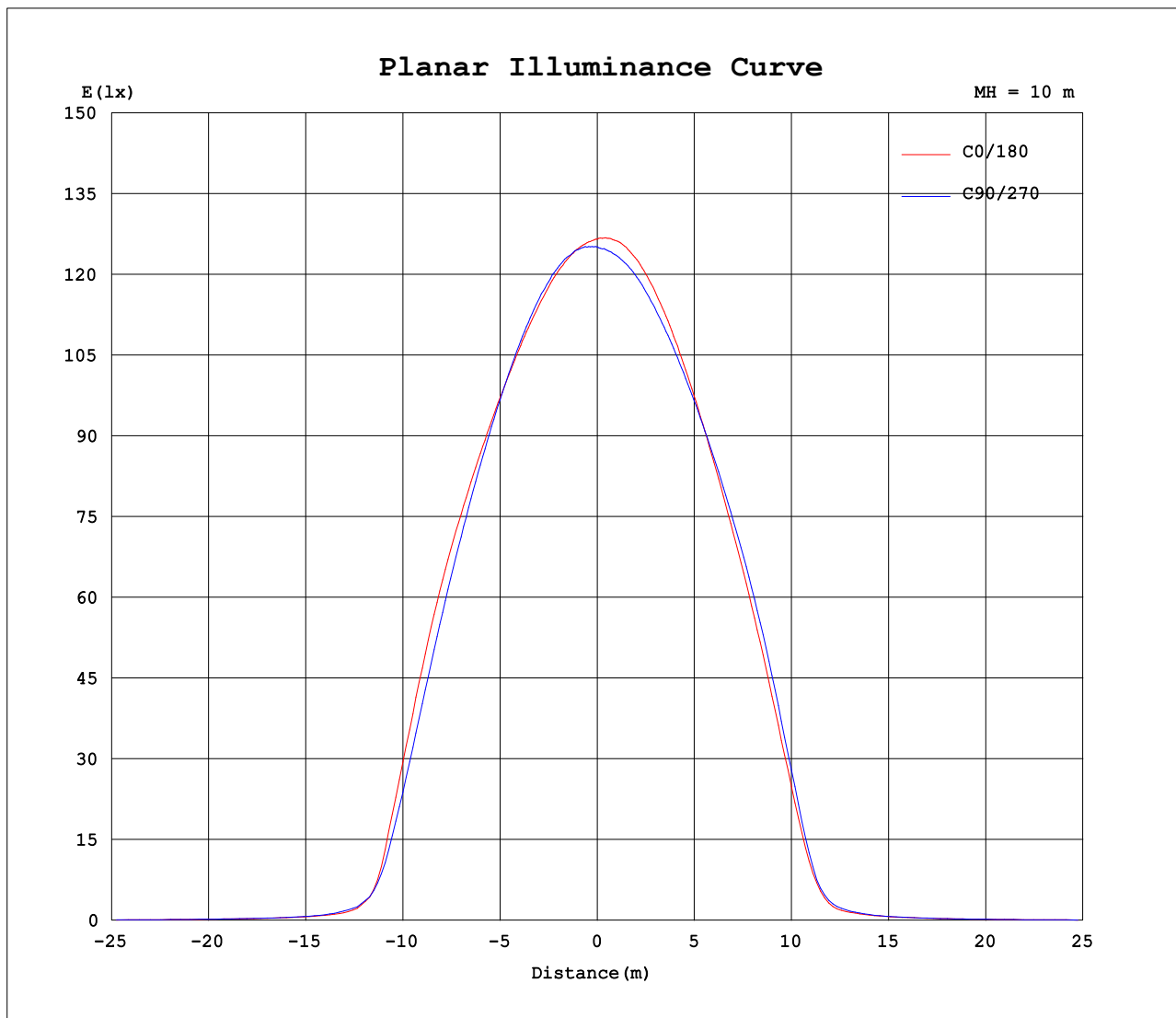
Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-08-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
Humidity: 65.0%  
Test Distance: 9.300m [K=1.0000]  
Remarks: 90°

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

C (DEG) \ γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253
5	1253	1255	1258	1260	1264	1263	1264	1266	1266	1267	1265	1266	1266	1263	1261	1261	1260	1257	1253
10	1261	1268	1271	1275	1279	1281	1283	1285	1286	1285	1284	1284	1285	1281	1278	1277	1275	1271	1267
15	1279	1287	1292	1297	1302	1303	1306	1307	1308	1308	1307	1306	1306	1302	1300	1298	1296	1292	1286
20	1304	1313	1318	1323	1328	1330	1331	1332	1330	1330	1327	1329	1329	1327	1324	1322	1320	1317	1312
25	1333	1343	1347	1349	1352	1351	1349	1349	1346	1344	1342	1344	1345	1346	1345	1345	1346	1345	1341
30	1360	1366	1365	1364	1362	1357	1350	1346	1339	1335	1335	1340	1343	1350	1355	1358	1362	1364	1365
35	1359	1355	1346	1339	1326	1314	1299	1291	1278	1279	1279	1293	1298	1317	1328	1335	1343	1348	1354
40	1252	1216	1193	1184	1159	1148	1120	1113	1094	1103	1107	1137	1139	1183	1205	1208	1225	1224	1232
45	824	730	705	720	695	704	675	680	657	679	679	724	698	784	814	792	814	779	792
50	135	103	108	109	119	128	141	154	157	169	160	158	121	155	163	147	151	145	142
55	46.1	43.3	42.5	43.2	44.2	48.0	52.1	59.1	65.5	71.9	67.9	59.4	48.7	49.9	49.7	47.6	49.5	49.7	52.2
60	31.5	30.1	30.3	30.9	31.6	32.5	33.5	35.8	38.5	40.9	39.4	36.4	31.4	31.5	30.5	30.1	31.2	31.9	32.6
65	24.2	23.4	23.6	24.2	24.8	25.2	25.4	26.4	27.3	27.7	26.8	25.7	22.9	23.0	22.5	22.6	23.3	23.7	23.7
70	18.2	17.7	17.7	18.4	18.8	19.3	19.3	20.0	20.1	20.0	19.2	18.9	16.9	17.3	16.8	17.0	17.4	17.5	17.4
75	12.6	11.6	11.9	13.1	12.9	13.3	13.4	14.3	13.7	13.5	12.9	13.3	11.6	11.8	11.7	11.9	12.0	11.8	11.8
80	7.29	5.25	6.15	7.55	7.29	6.13	7.33	8.60	7.88	6.30	6.99	7.84	6.48	5.80	6.37	6.82	6.79	5.56	6.11
85	2.43	1.60	1.78	1.77	2.34	2.13	2.53	2.70	2.90	2.33	2.38	2.47	2.09	1.76	1.98	1.89	2.20	1.60	1.84
90	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
95	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
100	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
105	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.08
110	0.15	0.16	0.16	0.15	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.19	0.17	0.17	0.18	0.17	0.18	0.18
115	0.32	0.35	0.35	0.35	0.35	0.34	0.34	0.33	0.34	0.33	0.33	0.33	0.42	0.39	0.38	0.38	0.38	0.39	0.38
120	0.58	0.63	0.64	0.63	0.64	0.62	0.63	0.61	0.62	0.61	0.61	0.61	0.74	0.69	0.69	0.69	0.68	0.68	0.67
125	0.92	0.98	0.99	0.99	1.00	0.98	0.99	0.97	0.98	0.96	0.97	0.95	1.12	1.07	1.06	1.06	1.05	1.05	1.04
130	1.33	1.40	1.41	1.41	1.42	1.40	1.41	1.39	1.39	1.38	1.39	1.37	1.55	1.50	1.48	1.48	1.47	1.47	1.46
135	1.77	1.85	1.86	1.86	1.87	1.85	1.86	1.85	1.85	1.83	1.84	1.83	2.00	1.94	1.91	1.92	1.91	1.92	1.91
140	2.16	2.23	2.26	2.26	2.27	2.26	2.26	2.25	2.25	2.24	2.24	2.23	2.36	2.32	2.31	2.31	2.31	2.33	2.32
145	2.44	2.50	2.52	2.53	2.54	2.53	2.53	2.52	2.52	2.51	2.51	2.50	2.61	2.57	2.58	2.58	2.59	2.61	2.60
150	2.70	2.77	2.78	2.78	2.79	2.78	2.78	2.77	2.77	2.76	2.77	2.76	2.86	2.82	2.82	2.83	2.85	2.86	2.86
155	3.07	3.14	3.15	3.15	3.16	3.15	3.15	3.14	3.14	3.13	3.13	3.12	3.20	3.15	3.15	3.15	3.17	3.18	3.18
160	3.44	3.50	3.51	3.51	3.52	3.50	3.50	3.49	3.50	3.49	3.49	3.48	3.50	3.46	3.46	3.47	3.48	3.49	3.48
165	3.64	3.67	3.67	3.68	3.69	3.69	3.69	3.68	3.68	3.68	3.67	3.67	3.68	3.65	3.65	3.66	3.68	3.68	3.68
170	3.76	3.79	3.78	3.79	3.80	3.80	3.79	3.79	3.79	3.79	3.78	3.79	3.80	3.77	3.76	3.76	3.77	3.77	3.77
175	3.83	3.84	3.83	3.84	3.84	3.84	3.84	3.84	3.84	3.85	3.84	3.84	3.85	3.83	3.83	3.83	3.84	3.84	3.84
180	3.92	3.92	3.92	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.91	3.91	3.91	3.92	3.91	3.91

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.8190A P:173.4W PF:0.9580 Lamp Flux:25561.6x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0200-N01	DIM.:	SERIAL No.:
	SUR.:d=0.26	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1253	1253	1253	1253	1253														
5	1254	1251	1252	1250	1252														
10	1265	1262	1261	1260	1262														
15	1283	1279	1279	1277	1281														
20	1309	1303	1303	1300	1305														
25	1340	1334	1332	1331	1335														
30	1365	1361	1359	1356	1359														
35	1356	1355	1353	1351	1352														
40	1226	1229	1217	1221	1216														
45	754	768	739	765	743														
50	138	135	129	124	116														
55	52.7	54.8	52.9	50.5	46.3														
60	32.5	33.5	32.7	32.3	31.4														
65	23.7	24.1	24.0	23.9	24.1														
70	17.5	17.8	17.7	17.7	18.1														
75	12.2	12.1	11.8	12.0	12.6														
80	6.86	6.71	5.29	6.10	7.21														
85	1.64	1.97	1.58	1.69	1.45														
90	0.04	0.04	0.04	0.04	0.04														
95	0.04	0.04	0.04	0.04	0.04														
100	0.05	0.06	0.06	0.06	0.06														
105	0.09	0.09	0.09	0.09	0.09														
110	0.19	0.18	0.19	0.19	0.19														
115	0.39	0.38	0.40	0.39	0.40														
120	0.68	0.68	0.69	0.69	0.70														
125	1.05	1.04	1.05	1.05	1.07														
130	1.47	1.46	1.47	1.47	1.49														
135	1.92	1.90	1.92	1.91	1.94														
140	2.32	2.31	2.32	2.31	2.34														
145	2.60	2.59	2.60	2.60	2.61														
150	2.86	2.86	2.87	2.87	2.88														
155	3.18	3.18	3.19	3.19	3.20														
160	3.49	3.48	3.49	3.49	3.50														
165	3.68	3.68	3.68	3.68	3.69														
170	3.77	3.77	3.77	3.77	3.77														
175	3.85	3.84	3.84	3.84	3.85														
180	3.92	3.92	3.92	3.92	3.92														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-13

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: 90°