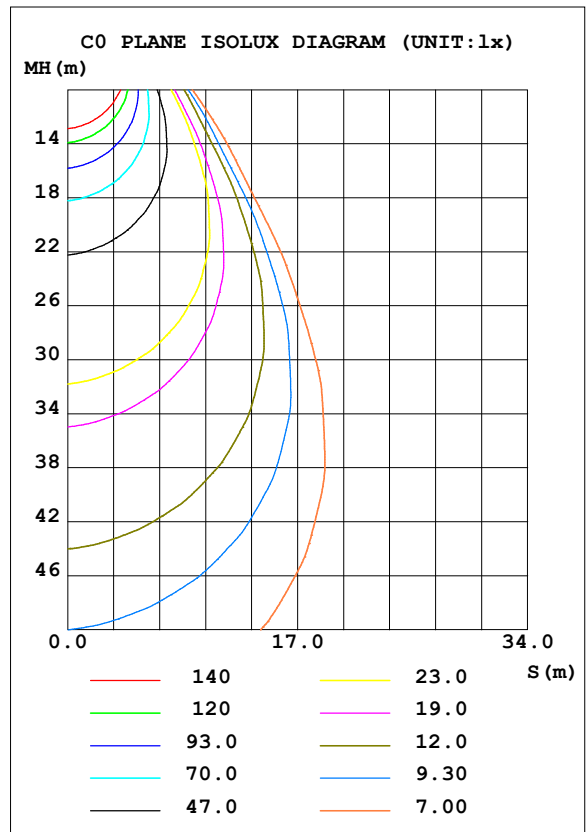
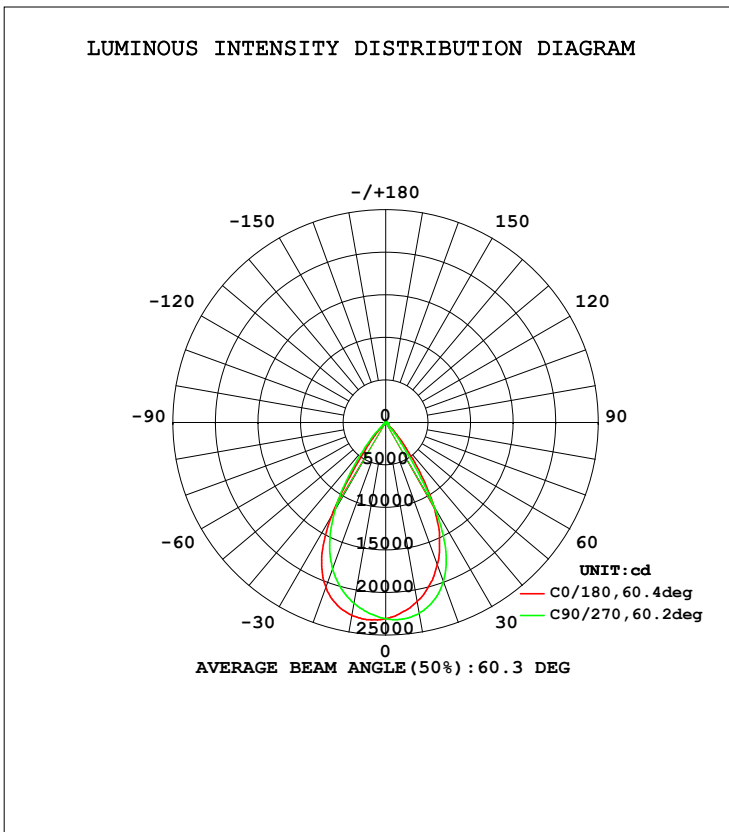


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.23 lm/W			
MODEL: Philips3030 34P7S 5700K		I <sub>max</sub> (cd)	23499	S/MH (C0/180)	0.89
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.87
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	20948	η UP, DN (C0-180)	0.1, 48.9
NOMINAL FLUX (lm)	20947.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 50.8
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220.7	η down (%)	99.7	CIBSE SHR MAX	0.90



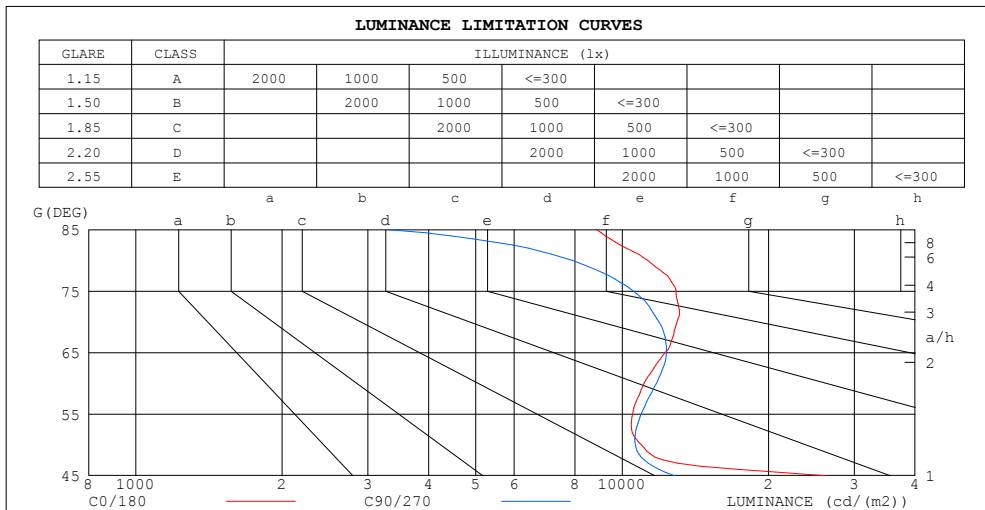
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019-04-16

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: 60°

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	2241	2275	2320	2347	2327	2292	2250	2226	0- 5	549.0	549.0	2.62,2.62
10	2135	2194	2276	2335	2301	2237	2157	2110	5- 10	1611	2160	10.3,10.3
15	1983	2059	2170	2261	2220	2135	2020	1951	10- 15	2563	4723	22.5,22.5
20	1778	1851	1988	2108	2059	1968	1828	1740	15- 20	3314	8038	38.4,38.4
25	1503	1546	1676	1827	1785	1715	1558	1463	20- 25	3736	11774	56.2,56.2
30	1133	1090	1132	1291	1282	1313	1193	1103	25- 30	3608	15382	73.4,73.4
35	676.1	529.6	458.6	528.3	566.8	742.0	736.3	676.3	30- 35	2648	18029	86.1,86.1
40	308.7	217.4	168.2	190.2	214.7	320.5	351.3	326.9	35- 40	1376	19405	92.6,92.6
45	89.91	46.19	44.46	47.05	46.58	90.52	115.7	102.6	40- 45	572.3	19977	95.4,95.4
50	34.21	32.25	33.55	34.50	33.36	35.11	36.54	35.48	45- 50	179.4	20157	96.2,96.2
55	29.27	29.33	30.81	30.99	30.35	30.98	31.10	30.56	50- 55	139.4	20296	96.9,96.9
60	26.98	28.60	28.84	28.88	28.58	29.65	28.84	28.16	55- 60	136.2	20432	97.5,97.5
65	25.18	28.12	25.57	26.15	25.79	30.01	26.81	26.11	60- 65	135.2	20568	98.2,98.2
70	21.56	20.43	19.96	20.98	20.47	24.50	23.27	23.02	65- 70	124.1	20692	98.8,98.8
75	16.23	13.11	13.38	14.35	13.60	16.77	17.72	17.98	70- 75	97.96	20790	99.2,99.2
80	9.519	5.974	6.717	6.560	6.361	7.554	11.08	11.00	75- 80	63.55	20853	99.5,99.5
85	3.752	1.958	1.401	1.487	1.701	2.956	4.650	3.596	80- 85	28.30	20882	99.7,99.7
90	0.0629	0.0391	0.0425	0.0398	0.0355	0.0726	0.3332	0.0804	85- 90	5.777	20887	99.7,99.7
95	0.0410	0.0435	0.0452	0.0448	0.0399	0.0391	0.0381	0.0404	90- 95	0.2376	20888	99.7,99.7
100	0.0481	0.0534	0.0546	0.0553	0.0492	0.0451	0.0464	0.0453	95-100	0.2466	20888	99.7,99.7
105	0.0612	0.0633	0.0662	0.0658	0.0596	0.0550	0.0579	0.0580	100-105	0.2984	20888	99.7,99.7
110	0.0721	0.0781	0.0827	0.0802	0.0760	0.0676	0.0690	0.0707	105-110	0.3524	20888	99.7,99.7
115	0.0962	0.1140	0.1246	0.1184	0.1215	0.1001	0.0933	0.0995	110-115	0.4494	20889	99.7,99.7
120	0.1623	0.2053	0.2206	0.2075	0.2287	0.1815	0.1640	0.1786	115-120	0.7030	20890	99.7,99.7
125	0.3245	0.3962	0.4073	0.3816	0.4283	0.3579	0.3335	0.3724	120-125	1.266	20891	99.7,99.7
130	0.6201	0.7064	0.6994	0.6542	0.7355	0.6470	0.6353	0.7044	125-130	2.236	20893	99.7,99.7
135	1.044	1.134	1.104	1.031	1.144	1.051	1.059	1.166	130-135	3.527	20897	99.8,99.8
140	1.574	1.655	1.592	1.497	1.642	1.553	1.593	1.728	135-140	4.957	20902	99.8,99.8
145	2.158	2.222	2.130	2.017	2.181	2.114	2.189	2.353	140-145	6.285	20908	99.8,99.8
150	2.721	2.772	2.664	2.545	2.727	2.684	2.789	2.977	145-150	7.231	20915	99.8,99.8
155	3.232	3.317	3.210	3.087	3.276	3.220	3.342	3.513	150-155	7.609	20923	99.9,99.9
160	3.750	3.877	3.797	3.664	3.856	3.786	3.905	4.036	155-160	7.444	20930	99.9,99.9
165	4.349	4.458	4.348	4.222	4.453	4.407	4.508	4.646	160-165	6.794	20937	99.9,99.9
170	4.931	5.026	4.920	4.812	5.025	4.953	5.016	5.122	165-170	5.562	20942	100,100
175	5.395	5.440	5.351	5.286	5.432	5.411	5.457	5.521	170-175	3.717	20946	100,100
180	5.661	5.691	5.659	5.655	5.685	5.668	5.665	5.676	175-180	1.317	20948	100,100
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm			



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8856	3278
80	11277	7887
75	12901	10539
70	12966	11898
65	12257	12334
60	11101	11761
55	10498	10951
50	10947	10643
45	26156	12820

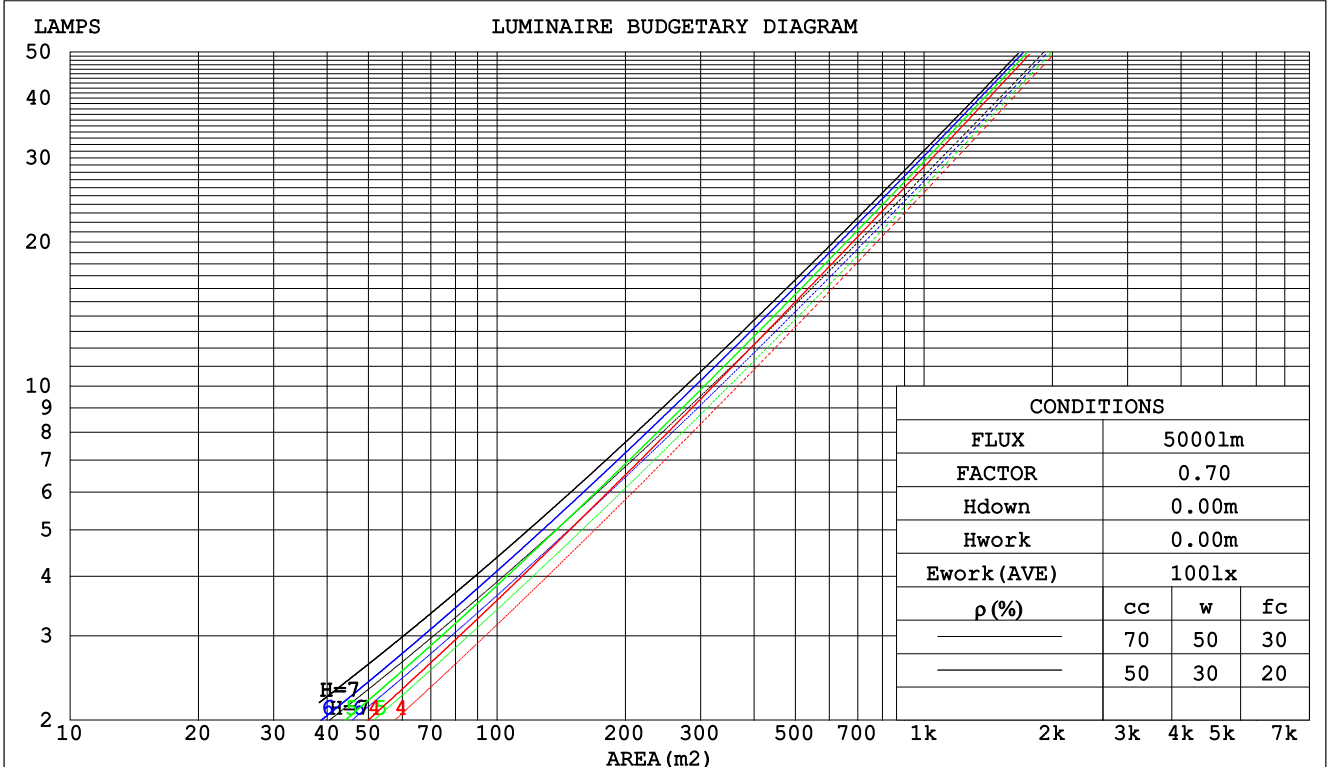
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2019-04-16

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: 60°

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	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	.00
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.03	.98	.95	1.01	.97	.94	.98	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.64	.59	.56	.63	.58	.55	.54
10.0	.62	.57	.53	.62	.56	.53	.61	.56	.53	.60	.56	.52	.60	.55	.52	.51



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°

WEC AND CCEC

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	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	.183	.104	.033	.176	.101	.032	.164	.094	.030	.152	.088	.028	.141	.082	.026	
2.0	.175	.096	.029	.169	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025	
3.0	.165	.088	.026	.160	.086	.026	.151	.082	.025	.143	.078	.024	.135	.075	.023	
4.0	.157	.082	.024	.153	.080	.024	.145	.077	.023	.137	.074	.022	.130	.071	.022	
5.0	.149	.076	.022	.145	.075	.022	.138	.072	.021	.132	.070	.021	.126	.067	.020	
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.127	.066	.019	.122	.064	.019	
7.0	.136	.067	.019	.133	.066	.019	.127	.064	.019	.122	.063	.018	.117	.061	.018	
8.0	.130	.063	.018	.127	.063	.018	.122	.061	.017	.118	.060	.017	.113	.058	.017	
9.0	.124	.060	.017	.122	.059	.017	.117	.058	.016	.113	.057	.016	.109	.056	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015	

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	.174	.159	.147	.149	.137	.126	.102	.094	.087	.059	.054	.051	.019	.018	.016	
2.0	.159	.135	.114	.136	.116	.099	.093	.080	.069	.054	.047	.040	.017	.015	.013	
3.0	.147	.116	.091	.126	.100	.079	.086	.069	.056	.050	.041	.033	.016	.013	.011	
4.0	.136	.101	.074	.117	.087	.065	.080	.061	.045	.047	.036	.027	.015	.012	.009	
5.0	.128	.090	.062	.110	.078	.054	.076	.054	.038	.044	.032	.022	.014	.010	.007	
6.0	.120	.080	.052	.103	.070	.045	.071	.049	.032	.041	.029	.019	.013	.009	.006	
7.0	.114	.073	.044	.098	.063	.038	.068	.044	.027	.039	.026	.016	.013	.009	.005	
8.0	.108	.067	.038	.093	.058	.033	.064	.041	.024	.037	.024	.014	.012	.008	.005	
9.0	.103	.061	.033	.089	.053	.029	.061	.037	.021	.036	.022	.012	.012	.007	.004	
10.0	.098	.057	.030	.085	.050	.026	.059	.035	.018	.034	.021	.011	.011	.007	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°

## Uncorrected UGR Table

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm										
NAME: Bulkhead Lamp					TYPE:Outdoor			WEIGHT:3		
SPEC.:CP-HB03-0150-N01					DIM.:			SERIAL No.:		
MFR.:					SUR.:d=0.25			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	20.4	21.4	20.6	21.5	21.7	19.7	20.7	20.0	20.9	21.0
3H	20.6	21.5	20.9	21.7	21.9	20.0	20.8	20.2	21.0	21.3
4H	20.7	21.6	21.0	21.8	22.0	20.1	20.9	20.4	21.1	21.4
6H	20.8	21.6	21.1	21.9	22.1	20.1	20.9	20.4	21.2	21.4
8H	20.8	21.6	21.2	21.9	22.1	20.1	20.9	20.4	21.1	21.4
12H	20.8	21.6	21.2	21.8	22.1	20.1	20.8	20.4	21.1	21.4
4H 2H	20.3	21.1	20.6	21.4	21.6	19.6	20.5	19.9	20.7	20.9
3H	20.6	21.3	20.9	21.6	21.9	20.0	20.7	20.3	21.0	21.3
4H	20.8	21.5	21.2	21.8	22.1	20.2	20.9	20.6	21.2	21.5
6H	21.0	21.6	21.4	21.9	22.3	20.4	20.9	20.7	21.3	21.6
8H	21.1	21.6	21.5	21.9	22.3	20.3	20.9	20.7	21.2	21.6
12H	21.1	21.6	21.5	21.9	22.3	20.3	20.8	20.7	21.2	21.6
8H 4H	20.8	21.4	21.2	21.7	22.1	20.2	20.8	20.6	21.1	21.5
6H	21.1	21.5	21.5	21.9	22.3	20.4	20.8	20.8	21.2	21.7
8H	21.1	21.5	21.6	21.9	22.4	20.4	20.8	20.9	21.2	21.7
12H	21.1	21.5	21.6	21.9	22.4	20.4	20.7	20.9	21.2	21.7
12H 4H	20.8	21.3	21.2	21.6	22.0	20.2	20.7	20.6	21.1	21.5
6H	21.0	21.4	21.5	21.8	22.3	20.4	20.8	20.8	21.2	21.6
8H	21.1	21.4	21.6	21.9	22.3	20.4	20.7	20.9	21.2	21.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / - 2.7					+ 1.8 / - 1.9				
1.5H	+ 5.4 / - 2.6					+ 3.8 / - 1.9				
2.0H	+ 1.9 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 20948 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.6)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

$\gamma$  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: 60°

## UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	PROTECTION ANGLE:

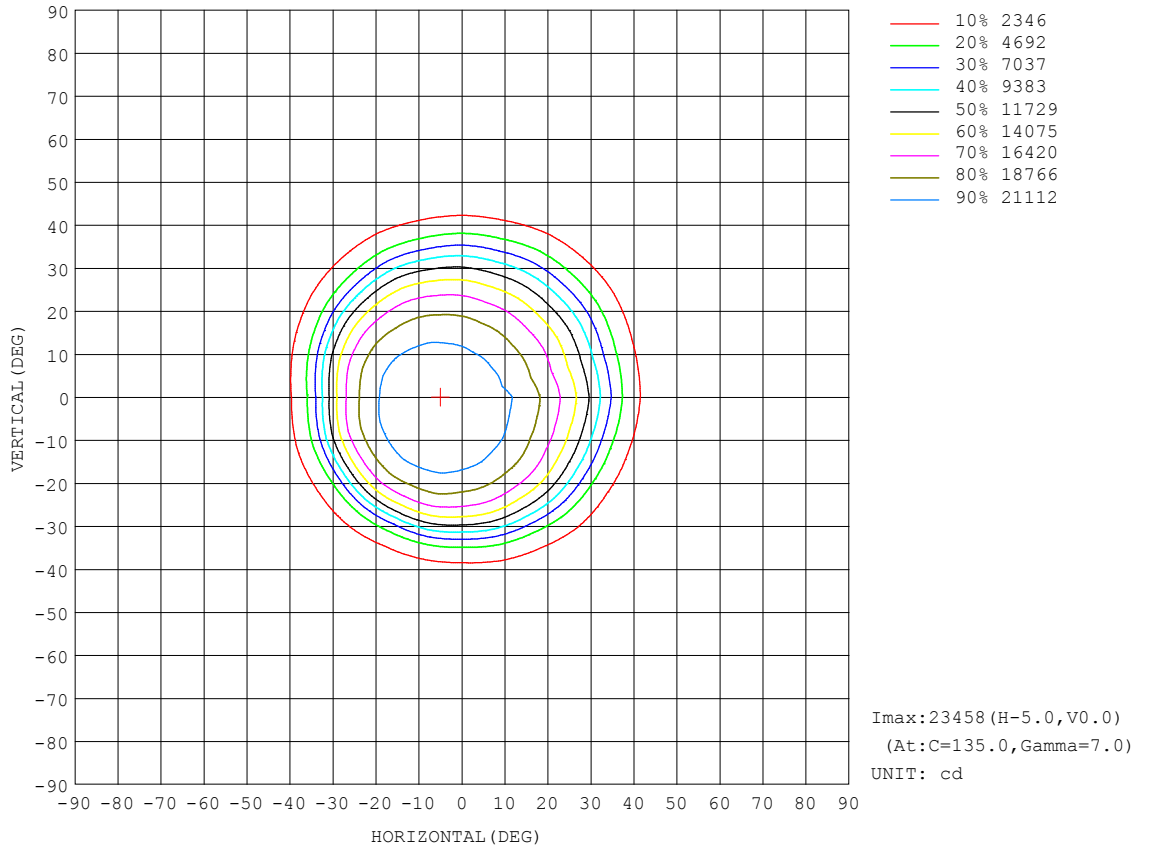
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	81	77	87	81	77	86	80	77	73
0.80	94	88	85	94	88	85	92	88	84	80
1.00	99	93	89	98	93	89	96	92	89	85
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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:2019-04-16

$\gamma$  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: 60°

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	PROTECTION ANGLE:

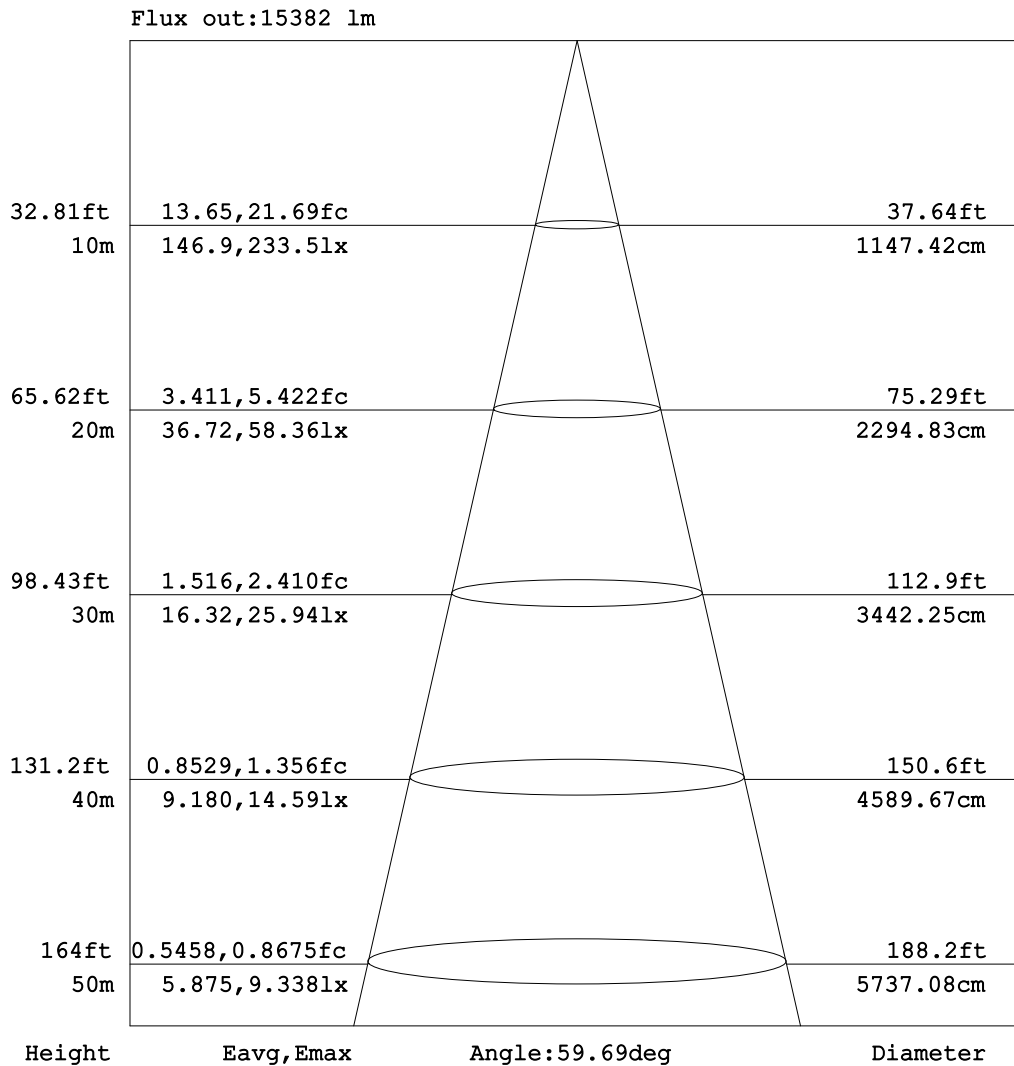


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°

AAI Figure

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	PROTECTION ANGLE:



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

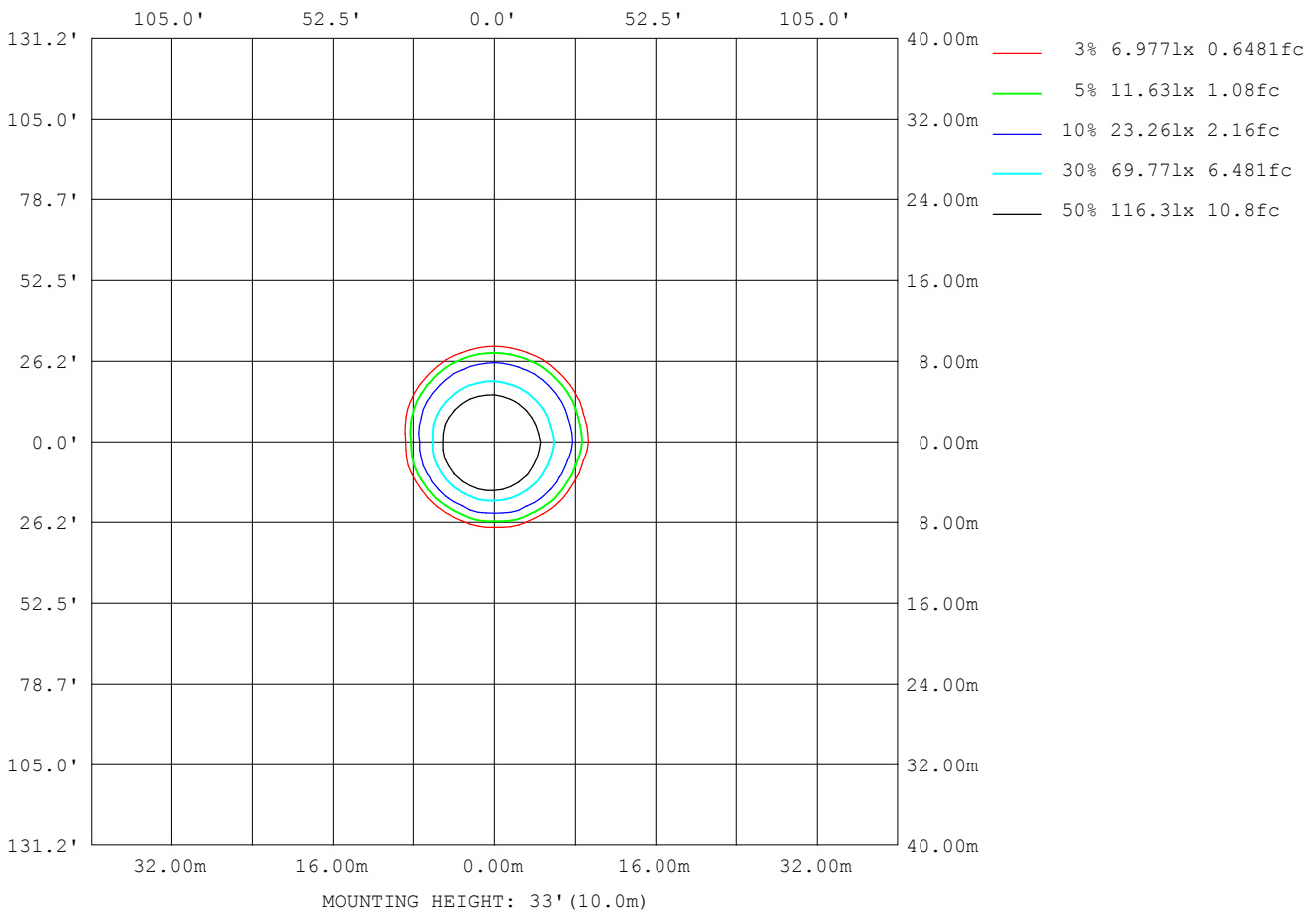
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°



ISOLUX DIAGRAM

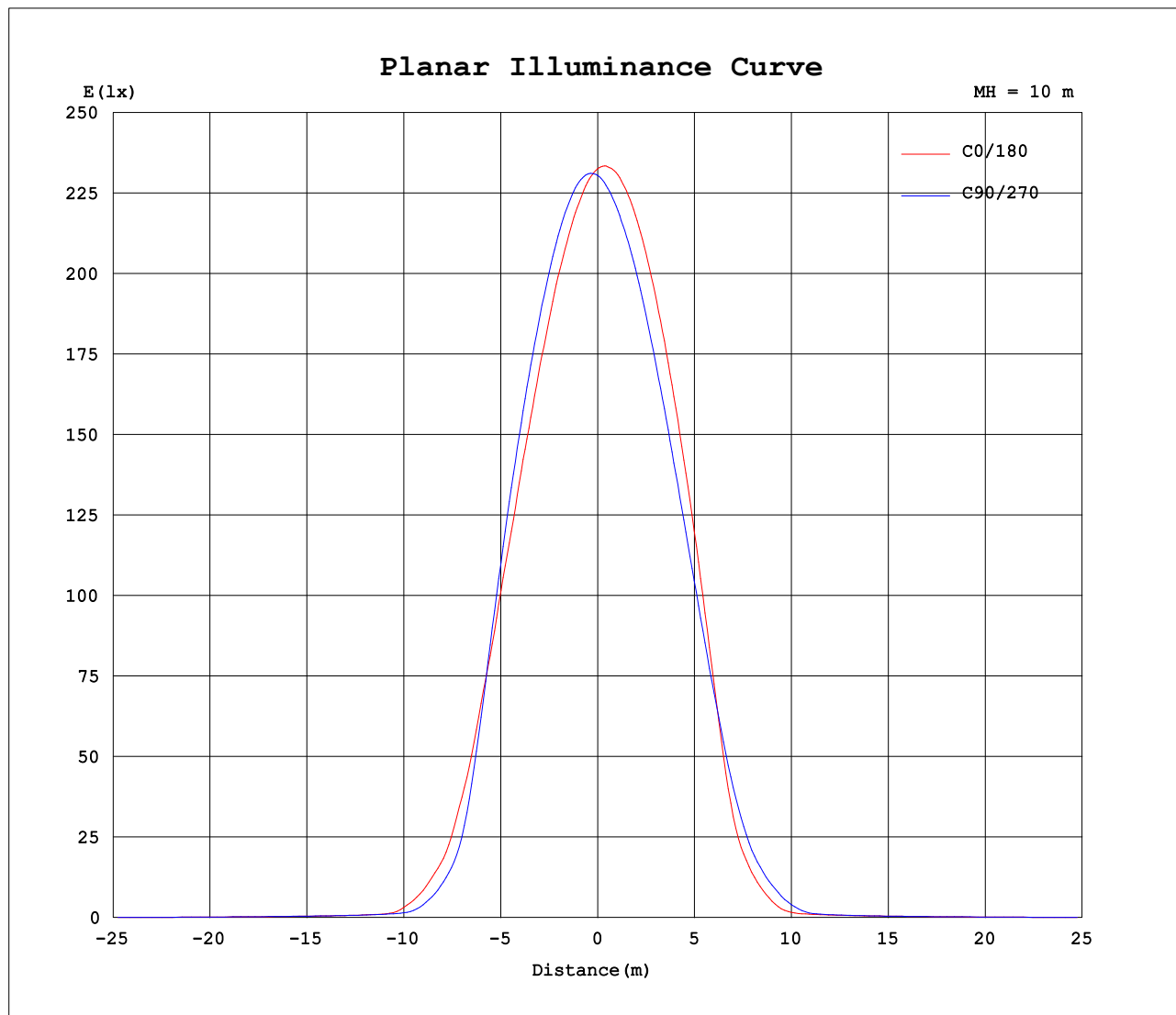
Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2019-04-16

$\gamma$  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: 60°

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	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	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307	2307
5	2241	2246	2258	2275	2289	2307	2320	2336	2340	2347	2344	2345	2327	2322	2309	2292	2277	2261	2250
10	2135	2145	2163	2194	2216	2253	2276	2307	2319	2335	2333	2332	2301	2294	2270	2237	2211	2176	2157
15	1983	1992	2015	2059	2089	2138	2170	2218	2235	2261	2260	2262	2220	2213	2182	2135	2098	2051	2020
20	1778	1777	1801	1851	1889	1946	1988	2047	2075	2108	2111	2117	2059	2064	2029	1968	1926	1866	1828
25	1503	1480	1497	1546	1576	1640	1676	1744	1780	1827	1836	1851	1785	1809	1778	1715	1668	1601	1558
30	1133	1075	1059	1090	1085	1127	1132	1202	1224	1291	1305	1356	1282	1365	1367	1313	1290	1220	1193
35	676	581	538	530	489	490	459	481	481	528	541	608	567	692	754	742	771	734	736
40	309	253	221	217	189	190	168	174	173	190	199	231	215	271	310	321	348	339	351
45	89.9	59.1	46.8	46.2	41.7	43.7	44.5	48.9	47.3	47.0	45.7	50.7	46.6	63.8	81.8	90.5	104	107	116
50	34.2	33.0	32.1	32.2	32.1	33.2	33.6	34.6	34.2	34.5	34.0	34.5	33.4	34.3	34.8	35.1	35.8	35.8	36.5
55	29.3	28.9	28.8	29.3	29.2	30.2	30.8	31.8	30.9	31.0	30.8	31.4	30.4	30.7	30.6	31.0	30.7	31.0	31.1
60	27.0	26.7	26.9	28.6	27.4	28.1	28.8	31.7	28.9	28.9	28.8	31.1	28.6	28.5	28.5	29.6	28.6	28.7	28.8
65	25.2	24.6	24.5	28.1	24.9	25.5	25.6	28.6	25.6	26.2	26.2	30.1	25.8	26.5	26.5	30.0	26.8	26.7	26.8
70	21.6	21.1	20.1	20.4	19.6	20.6	20.0	20.1	19.7	21.0	20.5	21.9	20.5	22.4	22.5	24.5	23.1	23.4	23.3
75	16.2	15.4	14.1	13.1	13.2	13.9	13.4	12.8	13.0	14.3	13.9	13.7	13.6	16.2	16.3	16.8	17.2	18.1	17.7
80	9.52	8.60	7.38	5.97	6.65	6.20	6.72	5.89	6.41	6.56	7.45	6.14	6.36	9.11	9.70	7.55	9.59	11.1	11.1
85	3.75	2.40	2.08	1.96	1.57	1.49	1.40	1.48	1.39	1.49	1.55	1.96	1.70	2.23	3.38	2.96	3.73	3.31	4.65
90	0.06	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	0.06	0.07	0.23	0.20	0.33
95	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.05	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	0.06	0.05	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
105	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
110	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07
115	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.10	0.10	0.10	0.10	0.09
120	0.16	0.19	0.20	0.21	0.22	0.21	0.22	0.21	0.22	0.21	0.21	0.19	0.23	0.20	0.18	0.18	0.17	0.17	0.16
125	0.32	0.37	0.40	0.40	0.41	0.40	0.41	0.39	0.40	0.38	0.38	0.36	0.43	0.38	0.36	0.36	0.34	0.34	0.33
130	0.62	0.69	0.72	0.71	0.72	0.70	0.70	0.68	0.68	0.65	0.65	0.63	0.74	0.67	0.65	0.65	0.63	0.64	0.64
135	1.04	1.13	1.16	1.13	1.14	1.11	1.10	1.06	1.06	1.03	1.03	1.00	1.14	1.07	1.04	1.05	1.04	1.06	1.06
140	1.57	1.67	1.69	1.65	1.65	1.60	1.59	1.54	1.53	1.50	1.50	1.47	1.64	1.56	1.53	1.55	1.55	1.58	1.59
145	2.16	2.26	2.27	2.22	2.21	2.15	2.13	2.08	2.06	2.02	2.02	1.99	2.18	2.10	2.09	2.11	2.12	2.17	2.19
150	2.72	2.82	2.82	2.77	2.75	2.69	2.66	2.61	2.58	2.55	2.54	2.52	2.73	2.65	2.65	2.68	2.69	2.75	2.79
155	3.23	3.34	3.35	3.32	3.30	3.25	3.21	3.15	3.12	3.09	3.08	3.06	3.28	3.20	3.19	3.22	3.24	3.30	3.34
160	3.75	3.88	3.90	3.88	3.87	3.82	3.80	3.74	3.71	3.66	3.66	3.64	3.86	3.77	3.76	3.79	3.82	3.87	3.91
165	4.35	4.48	4.49	4.46	4.44	4.39	4.35	4.30	4.26	4.22	4.21	4.19	4.45	4.37	4.37	4.41	4.43	4.48	4.51
170	4.93	5.06	5.06	5.03	5.00	4.96	4.92	4.88	4.84	4.81	4.80	4.79	5.03	4.94	4.93	4.95	4.96	5.00	5.02
175	5.39	5.47	5.46	5.44	5.41	5.38	5.35	5.33	5.30	5.29	5.27	5.27	5.43	5.39	5.40	5.41	5.42	5.44	5.46
180	5.66	5.70	5.69	5.69	5.68	5.67	5.66	5.66	5.65	5.65	5.65	5.66	5.68	5.68	5.68	5.67	5.67	5.67	5.66

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.6400A P:137.6W PF:0.9740 Lamp Flux:20947.5x1 lm		
NAME: Bulkhead Lamp	TYPE:Outdoor	WEIGHT:3
SPEC.:CP-HB03-0150-N01	DIM.:	SERIAL No.:
MFR.:	SUR.:d=0.25	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2307	2307	2307	2307	2307														
5	2238	2230	2226	2227	2229														
10	2134	2122	2110	2111	2114														
15	1986	1968	1951	1952	1957														
20	1783	1763	1740	1744	1743														
25	1508	1488	1463	1468	1453														
30	1141	1132	1103	1107	1077														
35	699	705	676	680	636														
40	334	345	327	326	300														
45	112	113	103	99.1	85.5														
50	36.6	36.6	35.5	35.0	34.1														
55	31.6	31.2	30.6	29.7	29.6														
60	30.1	29.0	28.2	27.4	28.2														
65	30.4	26.9	26.1	25.6	29.2														
70	25.6	23.3	23.0	22.2	23.7														
75	18.6	17.8	18.0	17.1	17.2														
80	9.51	10.4	11.0	10.5	7.77														
85	3.90	4.43	3.60	4.34	3.32														
90	0.16	0.22	0.08	0.08	0.05														
95	0.04	0.04	0.04	0.04	0.04														
100	0.05	0.05	0.05	0.05	0.05														
105	0.06	0.06	0.06	0.06	0.06														
110	0.07	0.07	0.07	0.07	0.07														
115	0.10	0.10	0.10	0.10	0.11														
120	0.17	0.17	0.18	0.18	0.19														
125	0.35	0.35	0.37	0.38	0.40														
130	0.66	0.67	0.70	0.71	0.75														
135	1.10	1.11	1.17	1.18	1.22														
140	1.65	1.67	1.73	1.74	1.79														
145	2.26	2.28	2.35	2.37	2.42														
150	2.88	2.90	2.98	3.00	3.05														
155	3.42	3.45	3.51	3.54	3.61														
160	3.96	4.01	4.04	4.05	4.13														
165	4.57	4.59	4.65	4.66	4.66														
170	5.07	5.08	5.12	5.13	5.17														
175	5.49	5.49	5.52	5.53	5.55														
180	5.67	5.67	5.68	5.67	5.69														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019-04-16

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: 60°