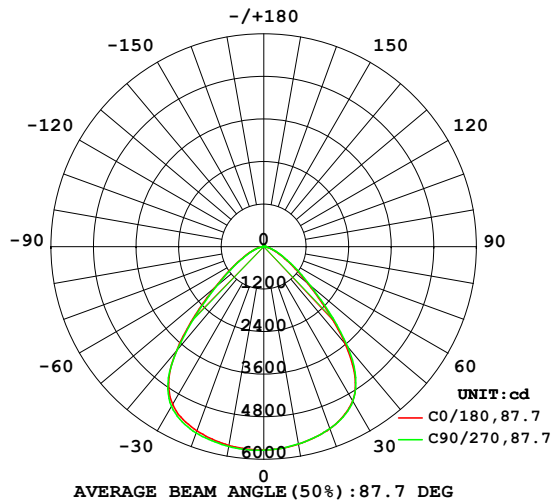


LUMINAIRE PHOTOMETRIC TEST REPORT

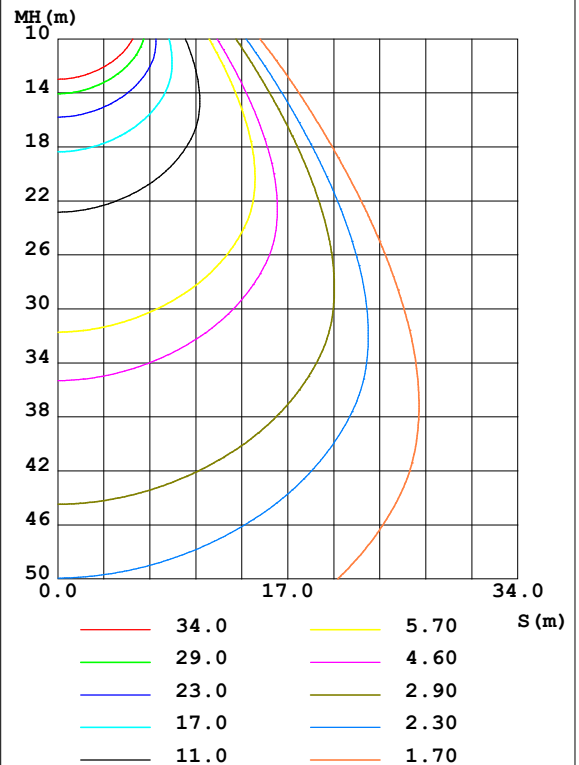
Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm		
NAME: H17S-80W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.49 lm/W			
MODEL		Imax(cd)	5751	S/MH(C0/180)	1.26
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	11364	□ UP,DN(C0-180)	0.5,49.0
NOMINAL FLUX(lm)	11364.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,50.0
LAMPS INSIDE	1	□ up(%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	99.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-12-28

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	5654	5644	5649	5669	5690	5720	5720	5692	0- 10	545.1	545.1	4.8,4.8
20	5463	5452	5462	5495	5524	5591	5592	5506	10- 20	1586	2131	18.8,18.8
30	5020	5016	5031	5096	5140	5214	5207	5087	20- 30	2466	4597	40.5,40.5
40	3574	3587	3678	3813	3832	3878	3804	3605	30- 40	2833	7430	65.4,65.4
50	1647	1663	1722	1811	1823	1778	1766	1657	40- 50	2039	9469	83.3,83.3
60	708.1	739.8	762.8	798.8	796.2	783.4	752.1	710.6	50- 60	1049	10518	92.6,92.6
70	288.0	306.2	320.4	338.0	330.2	320.6	304.5	288.9	60- 70	499.7	11018	97,97
80	78.34	90.51	99.24	106.1	94.63	85.19	76.83	71.34	70- 80	197.5	11215	98.7,98.7
90	5.267	6.076	6.152	5.502	3.647	4.285	3.598	4.845	80- 90	34.72	11250	99,99
100	5.970	5.858	5.802	5.519	5.213	5.265	5.401	5.570	90-100	5.118	11255	99,99
110	10.53	10.31	10.33	9.785	9.380	9.325	9.630	9.802	100-110	8.015	11263	99.1,99.1
120	16.25	15.99	16.14	15.34	15.09	14.72	15.27	15.34	110-120	12.49	11275	99.2,99.2
130	22.61	22.12	22.55	21.46	21.84	21.02	21.87	21.70	120-130	16.71	11292	99.4,99.4
140	28.52	28.00	28.40	27.46	28.32	27.52	28.33	28.15	130-140	19.32	11311	99.5,99.5
150	33.62	33.67	33.59	33.22	33.81	33.75	34.00	34.37	140-150	19.40	11331	99.7,99.7
160	39.55	39.34	39.52	38.97	39.89	39.67	40.11	40.24	150-160	16.87	11348	99.9,99.9
170	45.45	45.02	45.47	44.77	45.73	45.36	45.85	45.80	160-170	12.02	11360	100,100
180	48.48	48.06	48.56	48.03	48.45	48.09	48.54	48.12	170-180	4.461	11364	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 8600.6 lm

%lum = 75.7%

%lamp = 75.7%

Conical surface Flux(120deg): 10518 lm

%lum = 92.6%

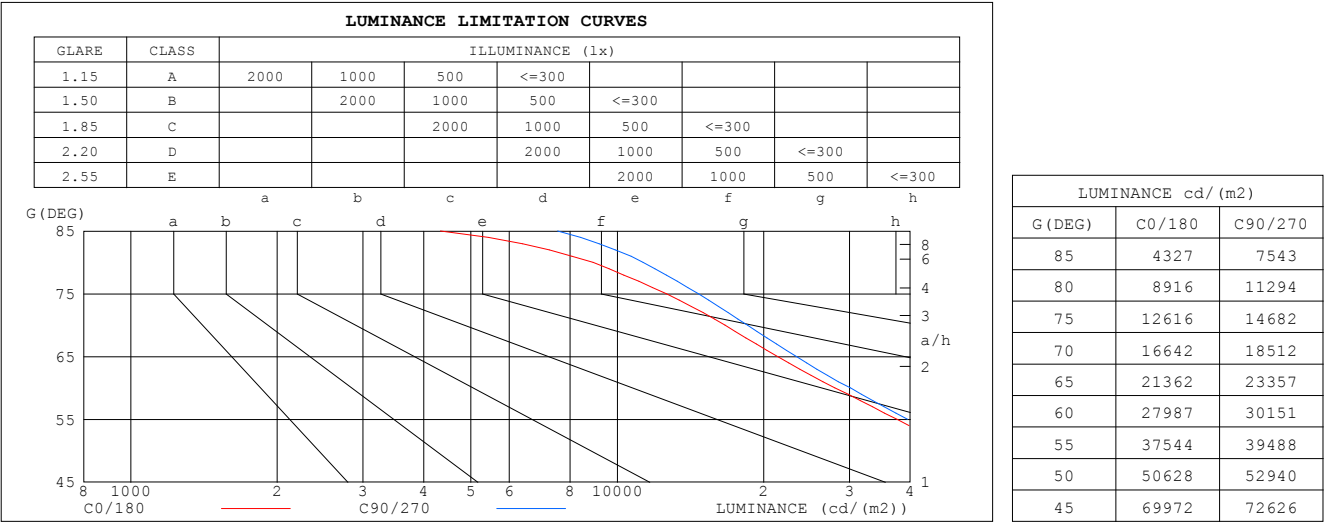
%lamp = 92.6%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-12-28

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm		
NAME: H17S-80W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm		
NAME: H17S-80W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.234 .133 .042	.227 .129 .041	.213 .122 .039	.201 .116 .037	.189 .110 .035	
2.0	.227 .124 .038	.221 .122 .037	.209 .116 .036	.198 .111 .035	.188 .107 .034	
3.0	.216 .115 .034	.211 .113 .034	.200 .109 .033	.191 .105 .032	.182 .101 .031	
4.0	.204 .106 .031	.200 .104 .031	.191 .101 .030	.182 .098 .030	.175 .095 .029	
5.0	.193 .098 .029	.189 .097 .028	.181 .094 .028	.173 .092 .027	.167 .089 .027	
6.0	.182 .091 .026	.179 .090 .026	.172 .088 .026	.165 .086 .025	.159 .084 .025	
7.0	.173 .085 .024	.169 .084 .024	.163 .082 .024	.157 .080 .023	.151 .079 .023	
8.0	.163 .080 .022	.160 .079 .022	.155 .077 .022	.149 .076 .022	.144 .074 .022	
9.0	.155 .075 .021	.152 .074 .021	.147 .073 .021	.142 .071 .020	.138 .070 .020	
10.0	.147 .071 .020	.145 .070 .019	.140 .069 .019	.136 .067 .019	.131 .066 .019	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.198 .198 .198	.169 .169 .169	.116 .116 .116	.066 .066 .066	.021 .021 .021	
1.0	.183 .165 .148	.156 .141 .127	.107 .097 .088	.062 .056 .051	.020 .018 .017	
2.0	.171 .140 .114	.147 .121 .098	.101 .083 .069	.058 .049 .040	.019 .016 .013	
3.0	.162 .122 .090	.139 .105 .078	.095 .073 .055	.055 .043 .032	.018 .014 .011	
4.0	.154 .108 .073	.132 .093 .063	.091 .065 .045	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .061	.126 .084 .053	.087 .059 .037	.050 .034 .022	.016 .011 .007	
6.0	.140 .088 .052	.120 .076 .045	.083 .054 .032	.048 .031 .019	.015 .010 .006	
7.0	.133 .081 .045	.115 .070 .039	.079 .049 .028	.046 .029 .016	.015 .010 .005	
8.0	.128 .075 .039	.110 .065 .034	.076 .046 .024	.044 .027 .015	.014 .009 .005	
9.0	.122 .070 .035	.105 .061 .031	.073 .043 .022	.043 .025 .013	.014 .008 .004	
10.0	.117 .066 .032	.101 .058 .028	.070 .040 .020	.041 .024 .012	.013 .008 .004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm										
NAME: H17S-80W-3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB Lighting Inc					SUR.:0.225*0.225			Shielding 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	24.7	26.0	25.0	26.2	26.4	24.9	26.1	25.1	26.3	26.5
3H	24.9	26.1	25.2	26.3	26.6	25.1	26.3	25.4	26.5	26.8
4H	25.0	26.1	25.3	26.3	26.6	25.2	26.3	25.5	26.5	26.8
6H	25.0	26.0	25.3	26.3	26.5	25.2	26.2	25.5	26.5	26.8
8H	24.9	25.9	25.3	26.2	26.5	25.2	26.2	25.5	26.5	26.8
12H	24.9	25.8	25.2	26.1	26.4	25.2	26.1	25.5	26.4	26.7
4H 2H	24.8	25.9	25.1	26.1	26.4	24.9	26.0	25.2	26.3	26.5
3H	25.1	26.0	25.5	26.3	26.7	25.3	26.2	25.6	26.5	26.8
4H	25.2	26.1	25.6	26.4	26.7	25.4	26.3	25.8	26.6	26.9
6H	25.2	26.0	25.6	26.3	26.7	25.5	26.2	25.9	26.6	27.0
8H	25.2	25.9	25.6	26.3	26.7	25.5	26.2	25.9	26.6	27.0
12H	25.2	25.8	25.6	26.2	26.6	25.5	26.1	25.9	26.5	26.9
8H 4H	25.2	25.9	25.6	26.3	26.6	25.4	26.1	25.8	26.5	26.9
6H	25.3	25.8	25.7	26.2	26.7	25.5	26.1	26.0	26.5	26.9
8H	25.3	25.8	25.7	26.2	26.7	25.5	26.0	26.0	26.5	26.9
12H	25.2	25.7	25.7	26.1	26.6	25.5	26.0	26.0	26.4	26.9
12H 4H	25.2	25.8	25.6	26.2	26.6	25.4	26.0	25.8	26.4	26.8
6H	25.2	25.7	25.7	26.2	26.6	25.5	26.0	26.0	26.4	26.9
8H	25.2	25.7	25.7	26.1	26.6	25.5	25.9	26.0	26.4	26.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.7					+ 1.1 / - 1.6				
1.5H	+ 1.3 / - 1.2					+ 1.2 / - 1.2				
2.0H	+ 2.4 / - 1.9					+ 2.4 / - 1.9				

CIE Pub.117, 11364 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 8.4$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm		
NAME: H17S-80W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

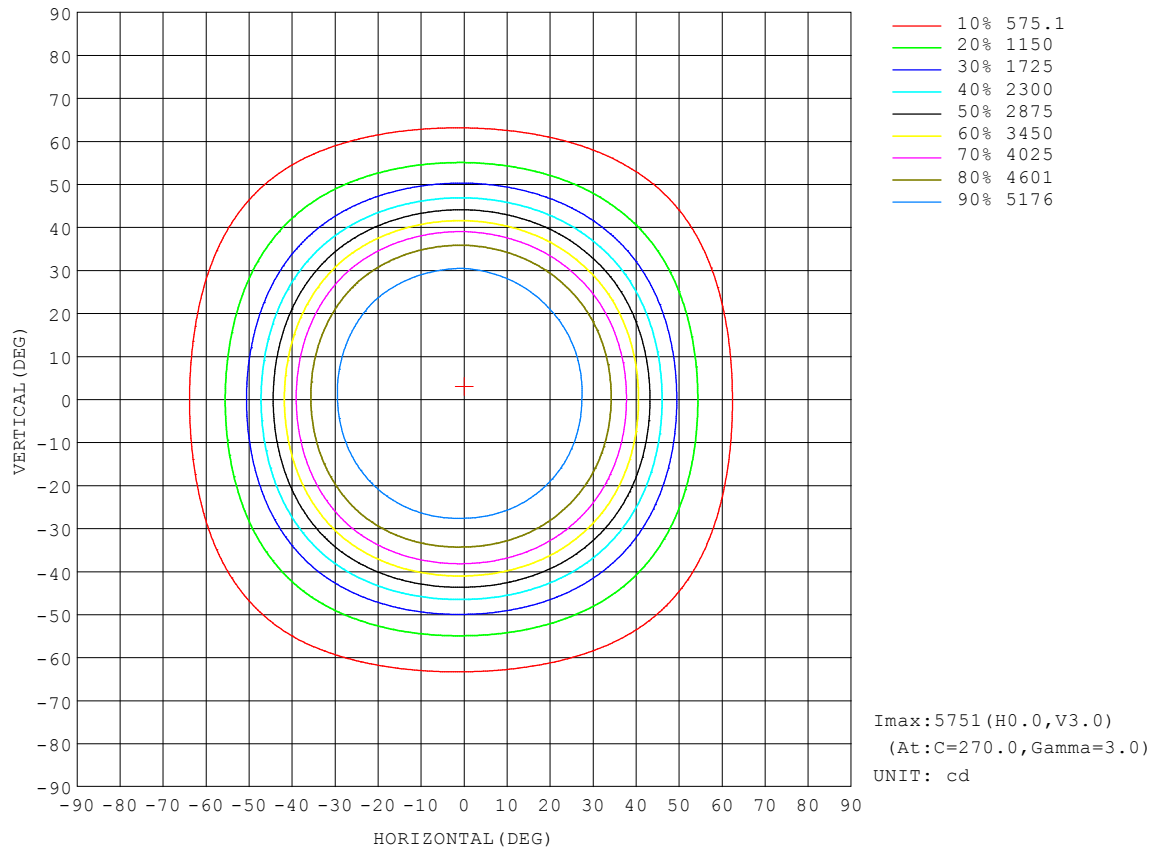
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	54	68	60	54	49
0.80	79	70	65	78	70	64	77	69	64	58
1.00	87	78	73	86	78	73	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	95	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	100	92
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm		
NAME: H17S-80W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

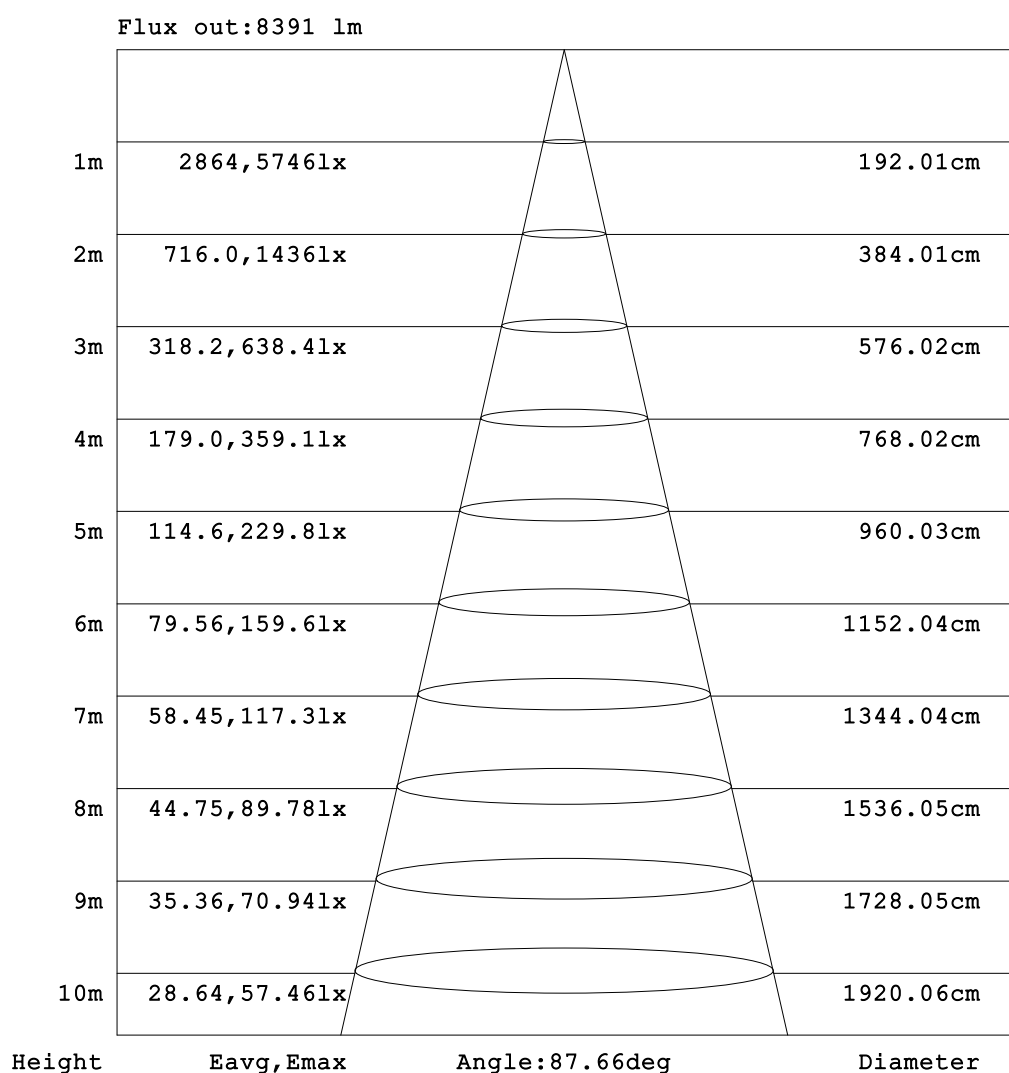


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm		
NAME: H17S-80W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

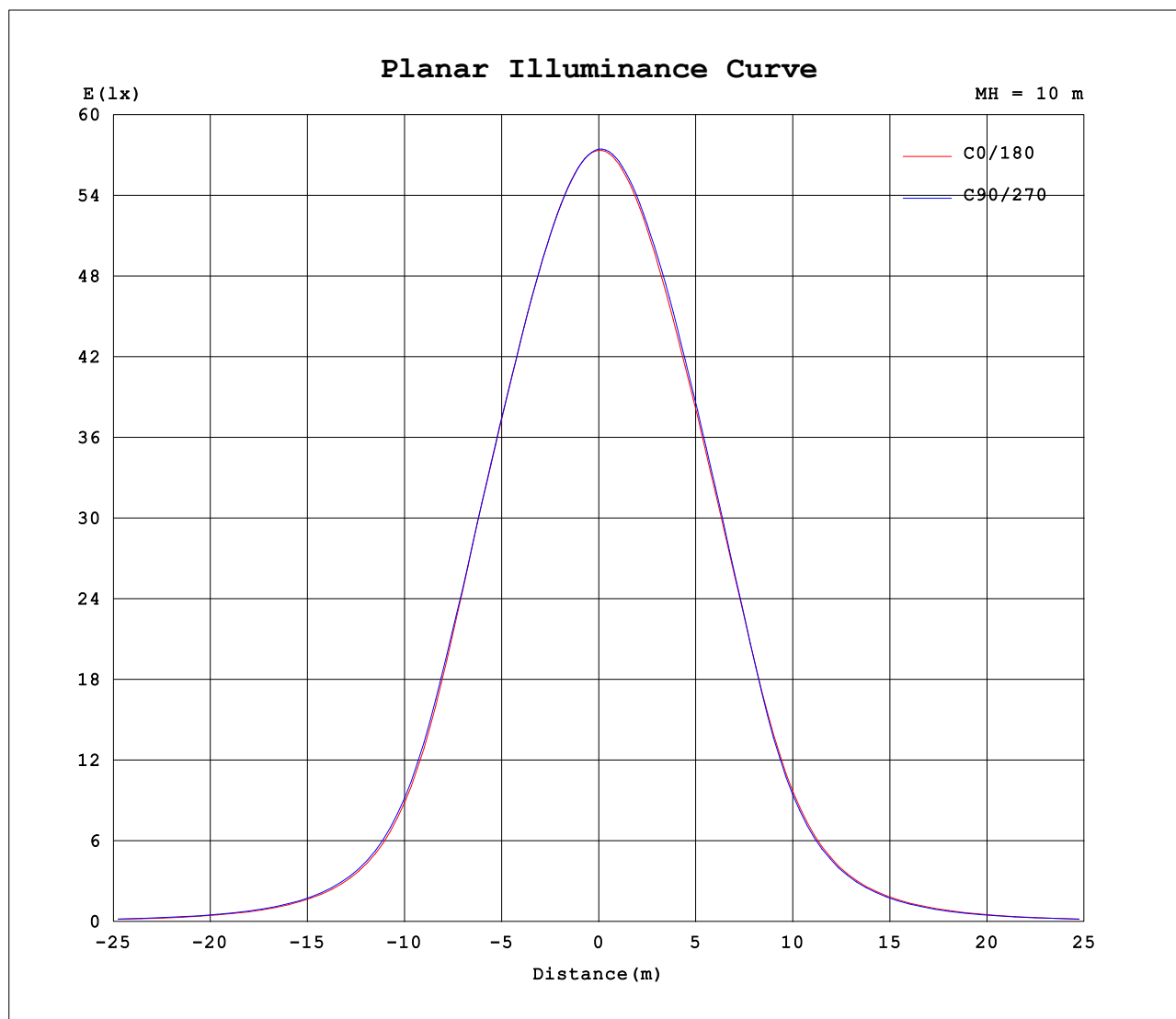


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 27DEG
Operators: lianghaizhu
Test Date: 2023-12-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity: 56%
Test Distance: 6.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.6405A P:77.05W PF:0.9967 Freq:59.98Hz Lamp Flux:11364.1x1 lm								
NAME: H17S-80W-3000K					TYPE:			WEIGHT:
SPEC.:					DIM.:			SERIAL No.:
MFR.: RAB Lighting Inc					SUR.:0.225*0.225			Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	5736	5741	5744	5746	5736	5741	5744	5746										
5	5709	5704	5709	5722	5730	5746	5749	5735										
10	5654	5644	5649	5669	5690	5720	5720	5692										
15	5572	5564	5571	5597	5621	5669	5667	5617										
20	5463	5452	5462	5495	5524	5591	5592	5506										
25	5290	5282	5298	5340	5386	5449	5449	5351										
30	5020	5016	5031	5096	5140	5214	5207	5087										
35	4487	4466	4516	4635	4686	4759	4719	4571										
40	3574	3587	3678	3813	3832	3878	3804	3605										
45	2504	2524	2599	2732	2746	2717	2671	2505										
50	1647	1663	1722	1811	1823	1778	1766	1657										
55	1090	1116	1146	1200	1202	1178	1154	1091										
60	708	740	763	799	796	783	752	711										
65	457	482	499	526	520	507	487	461										
70	288	306	320	338	330	321	304	289										
75	165	181	192	204	193	182	171	161										
80	78.3	90.5	99.2	106	94.6	85.2	76.8	71.3										
85	19.1	27.6	33.3	35.9	27.3	20.5	15.2	13.4										
90	5.27	6.08	6.15	5.50	3.65	4.29	3.60	4.85										
95	4.56	4.84	4.59	4.80	3.84	4.28	3.94	4.25										
100	5.97	5.86	5.80	5.52	5.21	5.27	5.40	5.57										
105	8.05	7.88	7.85	7.43	7.08	7.09	7.30	7.49										
110	10.5	10.3	10.3	9.79	9.38	9.32	9.63	9.80										
115	13.3	13.1	13.1	12.5	12.1	11.9	12.3	12.4										
120	16.2	16.0	16.1	15.3	15.1	14.7	15.3	15.3										
125	19.4	19.0	19.4	18.4	18.4	17.8	18.5	18.5										
130	22.6	22.1	22.6	21.5	21.8	21.0	21.9	21.7										
135	25.7	25.1	25.6	24.5	25.2	24.3	25.2	24.9										
140	28.5	28.0	28.4	27.5	28.3	27.5	28.3	28.2										
145	31.1	31.1	31.0	30.6	31.2	30.9	31.3	31.5										
150	33.6	33.7	33.6	33.2	33.8	33.8	34.0	34.4										
155	36.4	36.4	36.4	36.0	36.7	36.6	36.9	37.2										
160	39.5	39.3	39.5	39.0	39.9	39.7	40.1	40.2										
165	42.7	42.4	42.7	42.1	43.2	42.8	43.4	43.3										
170	45.4	45.0	45.5	44.8	45.7	45.4	45.9	45.8										
175	47.5	47.1	47.6	47.0	47.6	47.3	47.7	47.5										
180	48.5	48.1	48.6	48.0	48.5	48.1	48.5	48.1										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-12-28

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks: