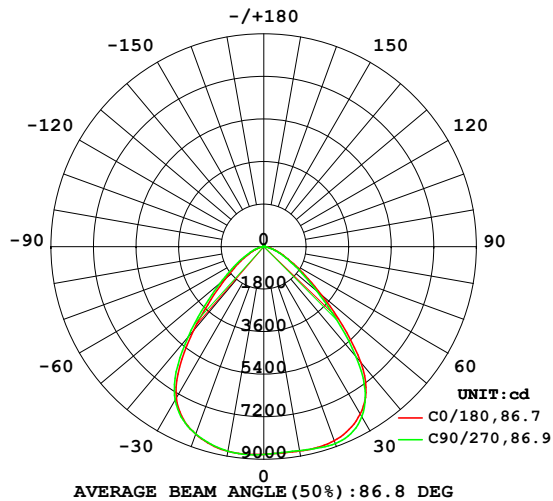


LUMINAIRE PHOTOMETRIC TEST REPORT

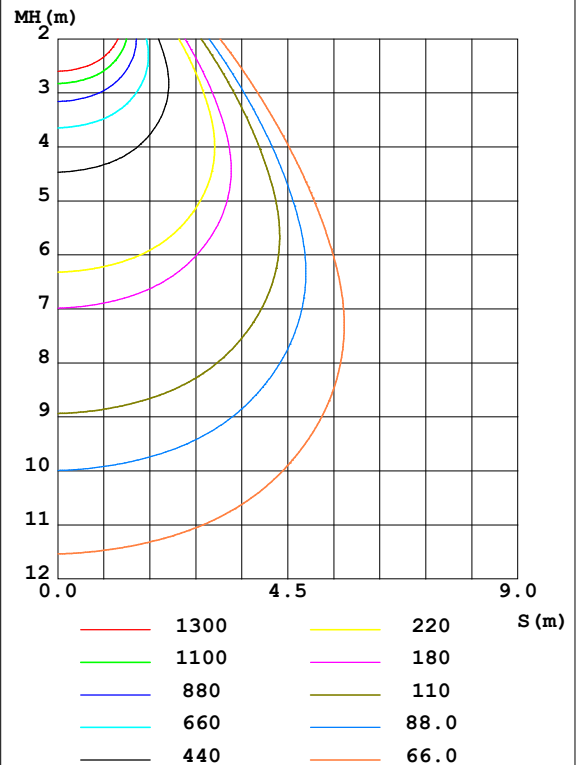
Test:U:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.49 lm/W			
MODEL		I _{max} (cd)	8865	S/MH(C0/180)	1.17
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	17502	□ UP,DN(C0-180)	0.5,52.8
NOMINAL FLUX(lm)	17502.3	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,46.2
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: 25.1DEG
Operators: Marvin Ma
Test Date: 2022-08-30

□ 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:

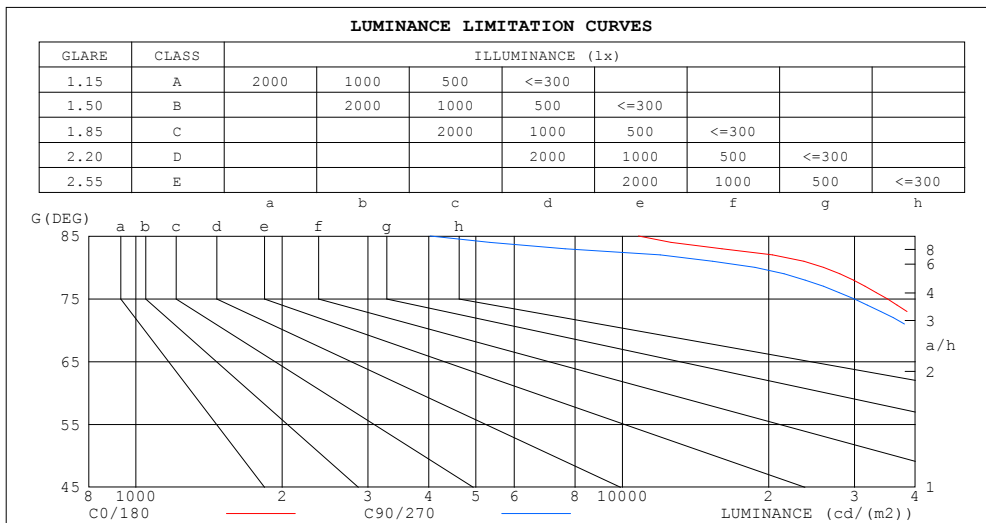
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	8779	8725	8758	8823	8793	8769	8783	8814	0- 10	838.8	838.8	4.79,4.79
20	8737	8852	8864	8690	8437	8380	8432	8545	10- 20	2471	3309	18.9,18.9
30	8174	8423	8304	7869	7402	7312	7498	7763	20- 30	3837	7146	40.8,40.8
40	6390	6463	6080	5461	4625	4659	4983	5515	30- 40	4268	11414	65.2,65.2
50	3227	3265	2942	2610	2132	2204	2423	2717	40- 50	3070	14484	82.8,82.8
60	1459	1486	1354	1192	963.0	1007	1126	1264	50- 60	1666	16150	92.3,92.3
70	625.1	644.7	569.4	498.2	396.3	423.3	471.0	539.6	60- 70	825.5	16976	97,97
80	186.9	139.3	135.1	89.01	87.73	77.14	121.6	105.0	70- 80	320.7	17296	98.8,98.8
90	6.925	7.588	5.853	7.092	6.177	7.986	6.380	8.079	80- 90	34.67	17331	99,99
100	7.368	7.559	8.099	8.656	9.489	9.411	8.848	8.064	90-100	7.971	17339	99.1,99.1
110	13.01	12.93	14.08	14.79	16.45	16.16	15.54	14.05	100-110	11.95	17351	99.1,99.1
120	21.01	20.48	22.31	22.82	25.69	25.08	24.68	22.38	110-120	18.48	17369	99.2,99.2
130	30.56	29.31	31.81	31.80	36.32	34.88	35.21	32.09	120-130	24.88	17394	99.4,99.4
140	39.62	38.99	40.32	41.40	45.90	44.96	45.13	42.47	130-140	28.99	17423	99.5,99.5
150	47.44	47.78	48.10	49.83	54.11	54.45	53.11	51.90	140-150	29.25	17453	99.7,99.7
160	56.14	55.84	57.03	57.77	62.64	62.24	61.44	60.18	150-160	25.29	17478	99.9,99.9
170	65.34	64.58	66.00	66.09	69.65	68.94	69.01	67.62	160-170	17.84	17496	100,100
180	71.53	70.71	71.52	70.95	71.59	70.75	71.48	71.04	170-180	6.585	17502	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-08-30

□ 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:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	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	.190 .110 .035	
2.0	.227 .125 .038	.221 .122 .038	.210 .117 .036	.199 .112 .035	.189 .107 .034	
3.0	.217 .115 .035	.211 .113 .034	.201 .109 .033	.192 .105 .032	.183 .101 .031	
4.0	.205 .106 .031	.200 .105 .031	.191 .101 .030	.183 .098 .030	.175 .095 .029	
5.0	.193 .099 .029	.189 .097 .028	.181 .094 .028	.174 .092 .027	.167 .089 .027	
6.0	.183 .092 .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	.115 .115 .115	.066 .066 .066	.021 .021 .021	
1.0	.183 .164 .148	.156 .141 .127	.107 .097 .088	.062 .056 .051	.020 .018 .017	
2.0	.171 .140 .113	.147 .120 .098	.101 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.162 .122 .089	.139 .105 .078	.095 .073 .054	.055 .043 .032	.018 .014 .011	
4.0	.154 .108 .073	.132 .093 .063	.091 .065 .044	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.126 .084 .052	.086 .058 .037	.050 .034 .022	.016 .011 .007	
6.0	.139 .088 .051	.120 .076 .045	.083 .053 .032	.048 .031 .019	.015 .010 .006	
7.0	.133 .081 .044	.115 .070 .039	.079 .049 .027	.046 .029 .016	.015 .010 .005	
8.0	.127 .075 .039	.110 .065 .034	.076 .046 .024	.044 .027 .014	.014 .009 .005	
9.0	.122 .070 .035	.105 .061 .031	.073 .043 .022	.042 .025 .013	.014 .008 .004	
10.0	.117 .066 .032	.101 .057 .028	.070 .040 .020	.041 .024 .012	.013 .008 .004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-08-30

☐ 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:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm										
NAME: H17-120W-3K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB LIGHTING INC					SUR.:0.23m			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	28.4	29.6	28.6	29.8	30.0	28.1	29.4	28.4	29.6	29.8
3H	28.7	29.8	29.0	30.1	30.3	28.4	29.6	28.7	29.8	30.0
4H	28.8	29.9	29.1	30.1	30.4	28.5	29.6	28.8	29.8	30.1
6H	28.8	29.8	29.1	30.1	30.4	28.5	29.5	28.8	29.8	30.0
8H	28.8	29.7	29.1	30.0	30.3	28.4	29.4	28.8	29.7	30.0
12H	28.7	29.7	29.1	30.0	30.3	28.4	29.3	28.7	29.6	29.9
4H 2H	28.5	29.5	28.8	29.8	30.1	28.2	29.3	28.6	29.6	29.8
3H	28.9	29.8	29.3	30.1	30.5	28.7	29.6	29.0	29.9	30.2
4H	29.1	29.9	29.4	30.2	30.6	28.8	29.6	29.2	30.0	30.3
6H	29.1	29.9	29.5	30.2	30.6	28.8	29.6	29.2	29.9	30.3
8H	29.1	29.8	29.5	30.2	30.6	28.8	29.5	29.2	29.9	30.2
12H	29.1	29.7	29.5	30.1	30.5	28.7	29.4	29.2	29.8	30.2
8H 4H	29.0	29.7	29.5	30.1	30.5	28.8	29.5	29.2	29.9	30.2
6H	29.1	29.7	29.6	30.1	30.6	28.8	29.4	29.3	29.8	30.3
8H	29.1	29.6	29.6	30.1	30.5	28.8	29.3	29.3	29.8	30.2
12H	29.1	29.5	29.6	30.0	30.5	28.8	29.2	29.3	29.7	30.2
12H 4H	29.0	29.6	29.4	30.0	30.5	28.7	29.4	29.2	29.8	30.2
6H	29.1	29.6	29.6	30.0	30.5	28.8	29.3	29.3	29.7	30.2
8H	29.1	29.5	29.6	30.0	30.5	28.8	29.2	29.3	29.7	30.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.4					+ 1.1 / - 1.5				
1.5H	+ 0.9 / - 0.9					+ 1.0 / - 1.0				
2.0H	+ 2.2 / - 1.7					+ 2.1 / - 1.7				

CIE Pub.117, 17502 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.9$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-08-30

☐ 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:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

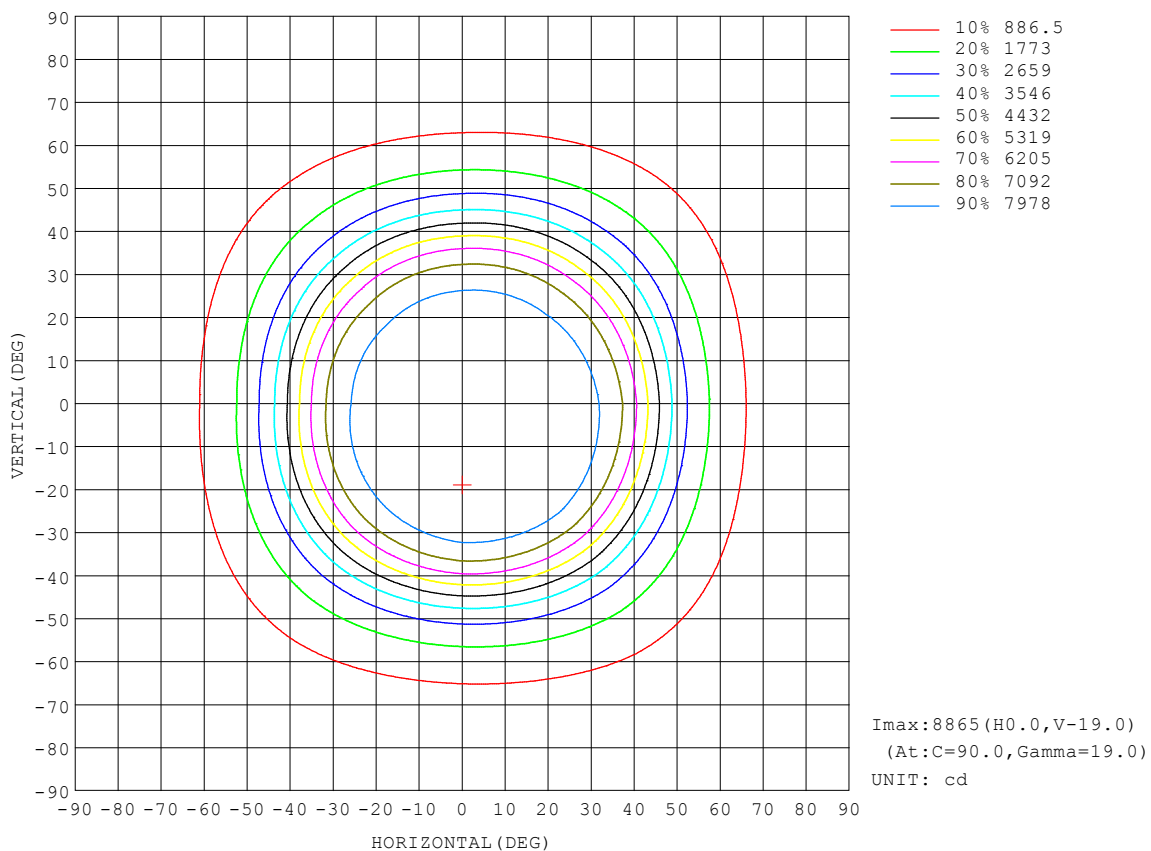
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	91	84	79	89	83	78	72
1.50	97	90	84	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: 25.1DEG
 Operators: Marvin Ma
 Test Date: 2022-08-30

☐ 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:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

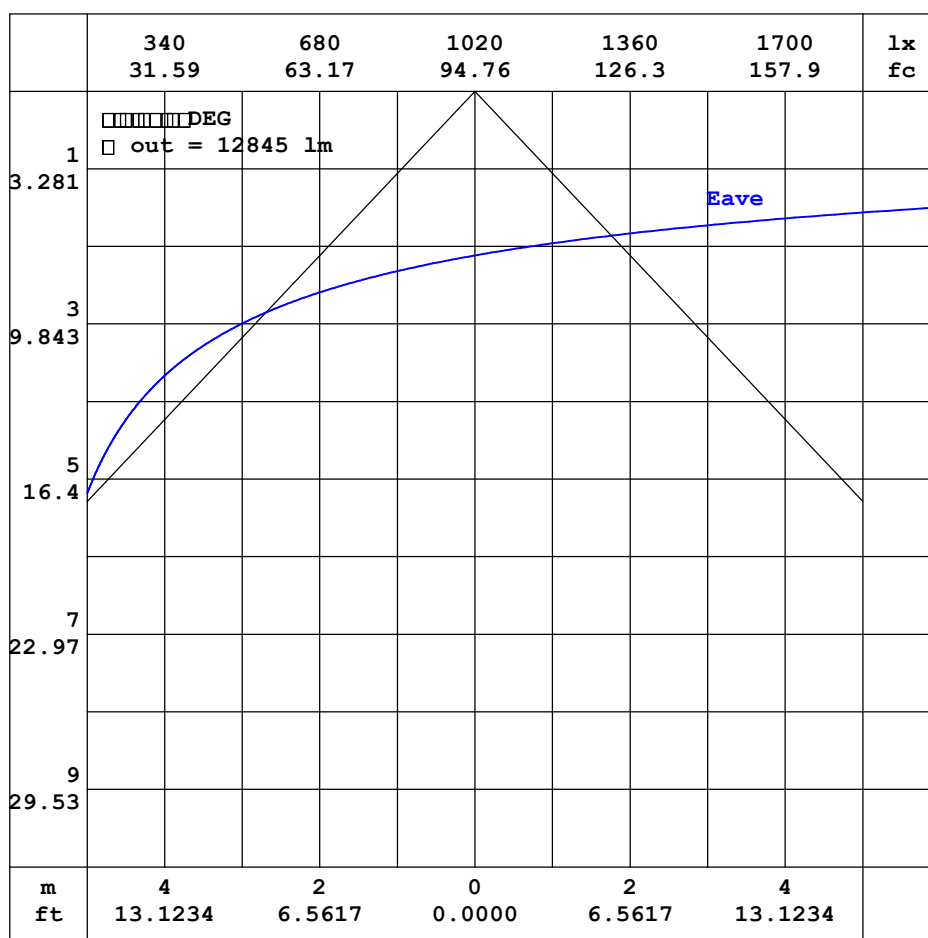


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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 CURVES

Test:U:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

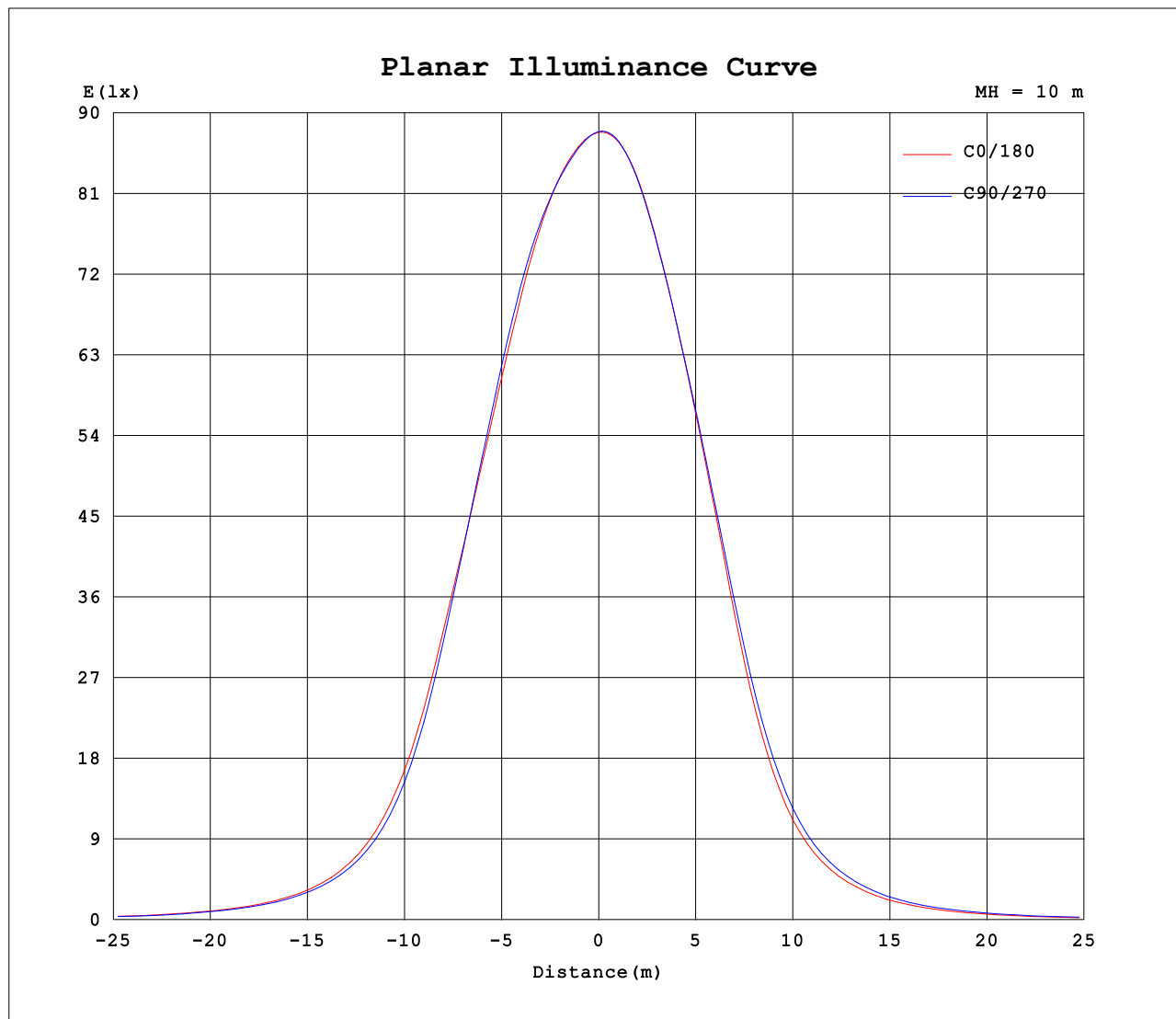


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Marvin Ma
Test Date: 2022-08-30

□ 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: 25.1DEG
Operators: Marvin Ma
Test Date: 2022-08-30

☐ 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:122.2V I:1.007A P:122.8W PF:0.9980 Freq:59.98Hz Lamp Flux:17502.3x1 lm		
NAME: H17-120W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8784	8782	8792	8804	8784	8782	8792	8804										
5	8764	8729	8749	8802	8812	8815	8823	8823										
10	8779	8725	8758	8823	8793	8769	8783	8814										
15	8796	8789	8827	8812	8672	8622	8653	8730										
20	8737	8852	8864	8690	8437	8380	8432	8545										
25	8539	8776	8732	8395	8062	7986	8091	8257										
30	8174	8423	8304	7869	7402	7312	7498	7763										
35	7536	7719	7483	6959	6218	6160	6465	6907										
40	6390	6463	6080	5461	4625	4659	4983	5515										
45	4725	4761	4348	3855	3162	3228	3529	3984										
50	3227	3265	2942	2610	2132	2204	2423	2717										
55	2162	2210	1997	1775	1438	1501	1662	1861										
60	1459	1486	1354	1192	963	1007	1126	1264										
65	970	992	900	789	632	664	740	842										
70	625	645	569	498	396	423	471	540										
75	376	375	321	274	218	237	273	306										
80	187	139	135	89.0	87.7	77.1	122	105										
85	39.1	14.7	14.6	10.2	8.32	10.8	18.1	14.5										
90	6.92	7.59	5.85	7.09	6.18	7.99	6.38	8.08										
95	6.45	7.37	6.17	7.34	6.98	7.86	6.78	7.86										
100	7.37	7.56	8.10	8.66	9.49	9.41	8.85	8.06										
105	9.85	9.91	10.7	11.4	12.7	12.5	11.9	10.7										
110	13.0	12.9	14.1	14.8	16.4	16.2	15.5	14.0										
115	16.8	16.5	18.0	18.6	20.8	20.3	19.8	17.9										
120	21.0	20.5	22.3	22.8	25.7	25.1	24.7	22.4										
125	25.7	24.8	27.0	27.2	30.8	29.9	29.9	27.1										
130	30.6	29.3	31.8	31.8	36.3	34.9	35.2	32.1										
135	35.4	33.9	36.2	36.3	41.3	39.8	40.5	37.1										
140	39.6	39.0	40.3	41.4	45.9	45.0	45.1	42.5										
145	43.6	43.8	44.2	46.0	50.0	50.3	49.2	47.8										
150	47.4	47.8	48.1	49.8	54.1	54.5	53.1	51.9										
155	51.6	51.6	52.4	53.6	58.3	58.2	57.1	55.9										
160	56.1	55.8	57.0	57.8	62.6	62.2	61.4	60.2										
165	60.9	60.3	61.8	62.1	66.7	66.0	65.7	64.2										
170	65.3	64.6	66.0	66.1	69.7	68.9	69.0	67.6										
175	69.1	68.3	69.5	69.2	71.4	70.6	71.0	70.1										
180	71.5	70.7	71.5	71.0	71.6	70.8	71.5	71.0										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-08-30

□ 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: