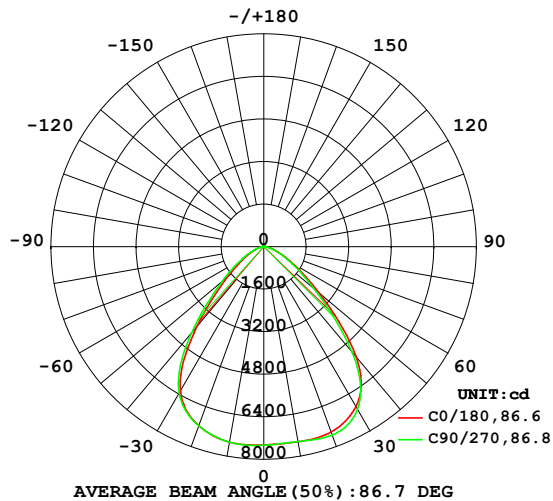


LUMINAIRE PHOTOMETRIC TEST REPORT

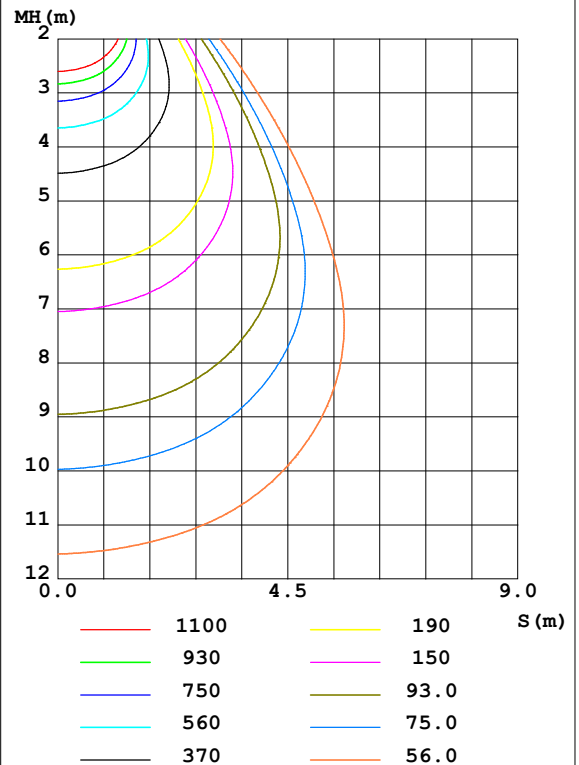
Test:U:122.2V I:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm					
NAME: H17-100W-3K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.23m		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 148.21 lm/W
MODEL		Imax(cd)	7534	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)	14850	□ UP,DN(C0-180)	0.5,52.8	
NOMINAL FLUX(lm)	14850.5	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:

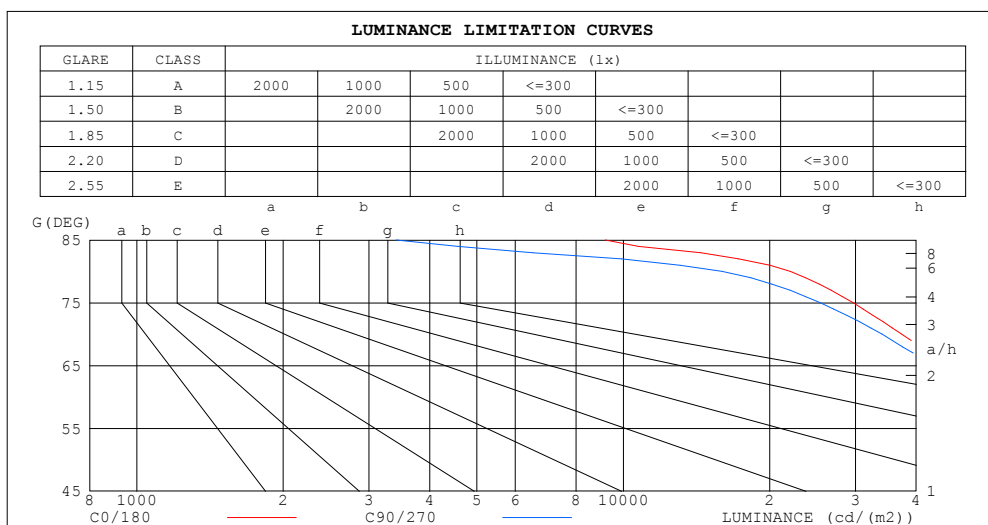
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	7451	7416	7444	7497	7465	7452	7464	7489	0- 10	712.5	712.5	4.8,4.8
20	7416	7527	7533	7380	7162	7120	7163	7260	10- 20	2099	2811	18.9,18.9
30	6938	7158	7051	6679	6279	6208	6366	6592	20- 30	3259	6070	40.9,40.9
40	5412	5487	5153	4623	3916	3950	4228	4674	30- 40	3621	9691	65.3,65.3
50	2731	2768	2490	2210	1808	1868	2054	2302	40- 50	2601	12292	82.8,82.8
60	1235	1262	1147	1011	816.0	854.5	955.6	1073	50- 60	1411	13703	92.3,92.3
70	530.3	547.8	483.1	422.7	336.2	359.4	399.7	458.8	60- 70	700.2	14403	97,97
80	158.8	116.8	114.9	75.59	74.58	65.43	103.7	89.91	70- 80	272.4	14676	98.8,98.8
90	5.860	6.415	4.949	6.004	5.216	6.776	5.414	6.839	80- 90	29.53	14705	99,99
100	6.236	6.395	6.865	7.345	8.008	7.988	7.464	6.812	90-100	6.745	14712	99.1,99.1
110	11.04	10.99	11.95	12.58	13.95	13.71	13.18	11.88	100-110	10.14	14722	99.1,99.1
120	17.87	17.42	18.96	19.43	21.77	21.27	20.96	18.97	110-120	15.69	14738	99.2,99.2
130	25.99	24.94	27.07	27.07	30.68	29.64	29.86	27.20	120-130	21.13	14759	99.4,99.4
140	33.71	33.17	34.31	35.20	38.93	38.30	38.34	35.99	130-140	24.63	14783	99.5,99.5
150	40.41	40.68	40.95	42.43	45.87	46.31	45.10	44.19	140-150	24.86	14808	99.7,99.7
160	47.82	47.56	48.53	49.19	53.07	52.70	52.22	51.10	150-160	21.51	14830	99.9,99.9
170	55.58	54.96	56.14	56.29	59.04	58.63	58.64	57.50	160-170	15.16	14845	100,100
180	60.74	60.12	60.79	60.36	60.73	60.19	60.77	60.41	170-180	5.598	14850	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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm		
NAME: H17-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9174	3414
80	22038	15950
75	29700	25417
70	37358	34037
65	46820	43561
60	59499	55293
55	76881	71039
50	102375	93353
45	136254	125386

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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm		
NAME: H17-100W-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	.189 .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	.191 .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 .059 .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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm											
NAME: H17-100W-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	2H	27.8	29.0	28.0	29.2	29.5	27.5	28.8	27.8	29.0	29.2
	3H	28.1	29.3	28.4	29.5	29.7	27.8	29.0	28.1	29.2	29.5
	4H	28.2	29.3	28.5	29.5	29.8	27.9	29.0	28.2	29.2	29.5
	6H	28.2	29.2	28.5	29.5	29.8	27.9	28.9	28.2	29.2	29.5
	8H	28.2	29.2	28.5	29.5	29.7	27.8	28.8	28.2	29.1	29.4
	12H	28.1	29.1	28.5	29.4	29.7	27.8	28.7	28.1	29.0	29.3
4H	2H	27.9	29.0	28.2	29.2	29.5	27.7	28.8	28.0	29.0	29.3
	3H	28.3	29.3	28.7	29.6	29.9	28.1	29.0	28.4	29.3	29.6
	4H	28.5	29.3	28.9	29.7	30.0	28.2	29.1	28.6	29.4	29.7
	6H	28.6	29.3	29.0	29.7	30.0	28.2	29.0	28.6	29.3	29.7
	8H	28.5	29.2	29.0	29.6	30.0	28.2	28.9	28.6	29.3	29.7
	12H	28.5	29.1	28.9	29.5	29.9	28.2	28.8	28.6	29.2	29.6
8H	4H	28.5	29.2	28.9	29.5	29.9	28.2	28.9	28.6	29.3	29.7
	6H	28.6	29.1	29.0	29.6	30.0	28.3	28.8	28.7	29.2	29.7
	8H	28.6	29.1	29.0	29.5	30.0	28.2	28.7	28.7	29.2	29.6
	12H	28.5	29.0	29.0	29.4	29.9	28.2	28.6	28.7	29.1	29.6
12H	4H	28.4	29.1	28.9	29.5	29.9	28.2	28.8	28.6	29.2	29.6
	6H	28.5	29.0	29.0	29.5	29.9	28.2	28.7	28.7	29.2	29.6
	8H	28.5	29.0	29.0	29.4	29.9	28.2	28.6	28.7	29.1	29.6
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, 14850 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.4$)

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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm		
NAME: H17-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

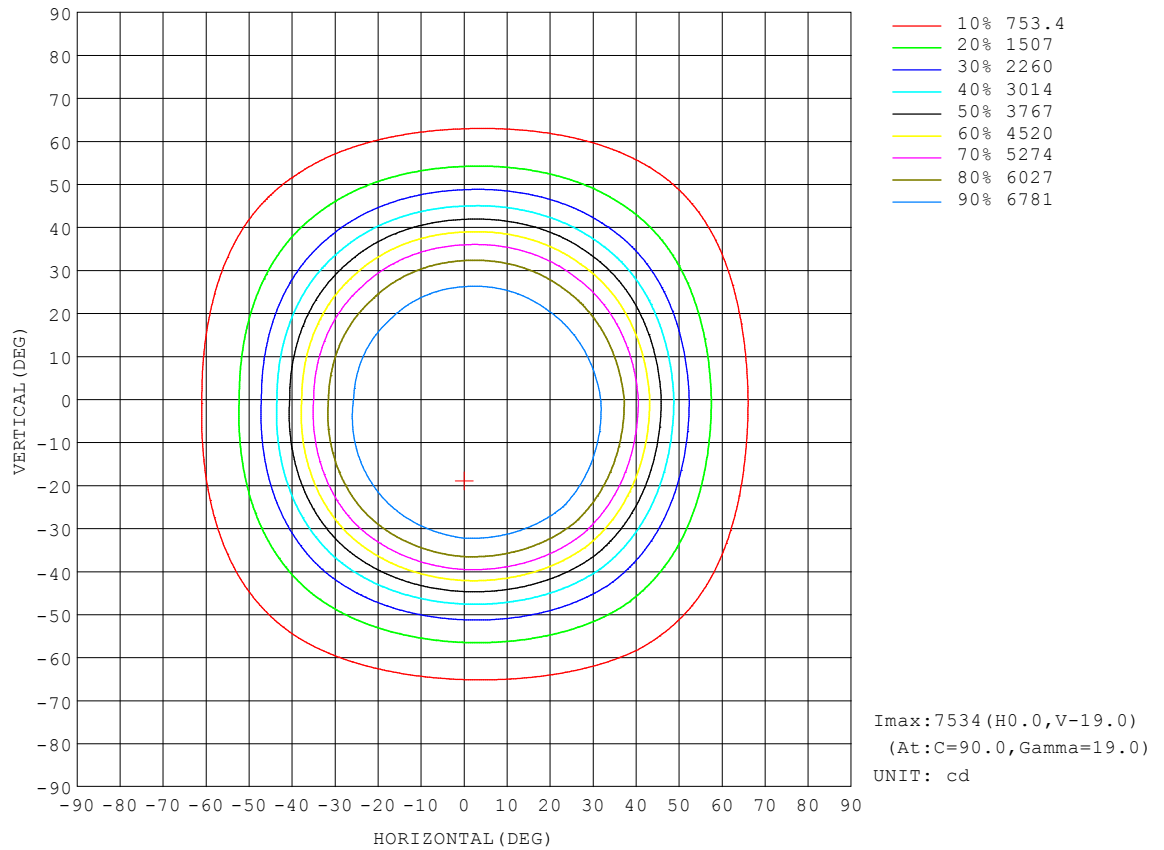
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm		
NAME: H17-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

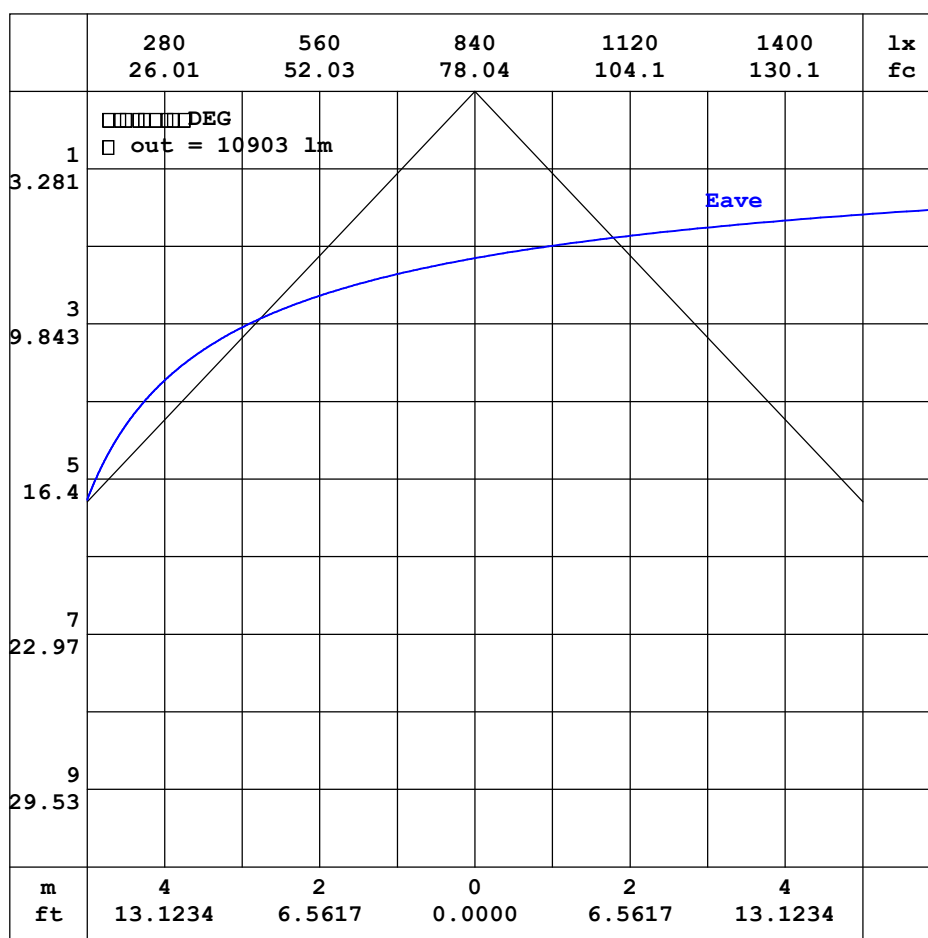


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm		
NAME: H17-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

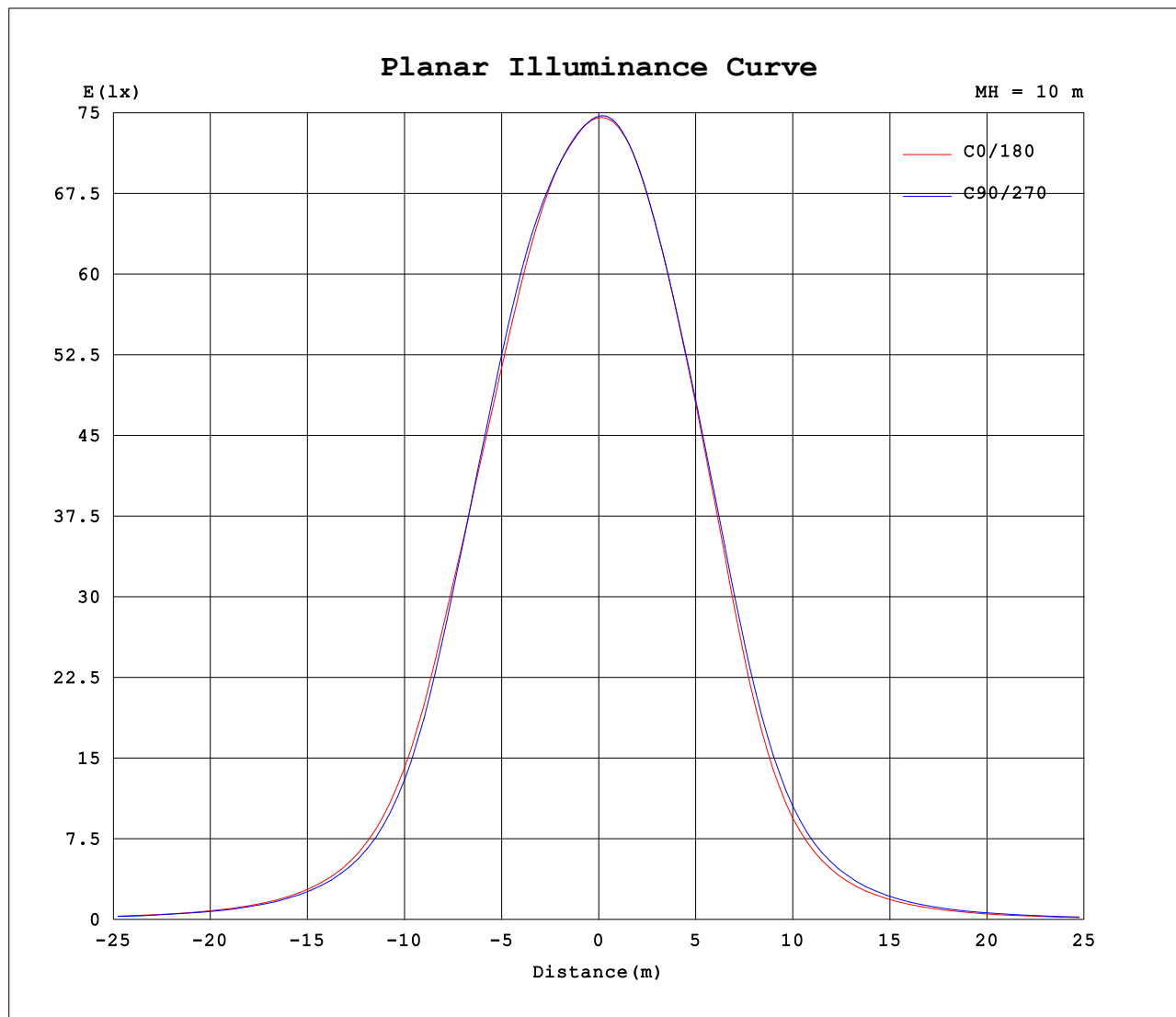


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.8221A P:100.2W PF:0.9974 Freq:59.98Hz Lamp Flux:14850.5x1 lm		
NAME: H17-100W-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	7455	7464	7469	7478	7455	7464	7469	7478										
5	7440	7419	7434	7478	7481	7492	7495	7495										
10	7451	7416	7444	7497	7465	7452	7464	7489										
15	7467	7471	7500	7487	7361	7328	7355	7417										
20	7416	7527	7533	7380	7162	7120	7163	7260										
25	7248	7460	7418	7127	6842	6786	6874	7014										
30	6938	7158	7051	6679	6279	6208	6366	6592										
35	6395	6557	6347	5902	5269	5223	5485	5860										
40	5412	5487	5153	4623	3916	3950	4228	4674										
45	3998	4041	3679	3261	2676	2735	2991	3374										
50	2731	2768	2490	2210	1808	1868	2054	2302										
55	1830	1876	1691	1495	1219	1273	1410	1579										
60	1235	1262	1147	1011	816	855	956	1073										
65	821	842	764	670	536	564	629	716										
70	530	548	483	423	336	359	400	459										
75	319	319	273	232	185	201	232	261										
80	159	117	115	75.6	74.6	65.4	104	89.9										
85	33.2	12.5	12.3	8.64	7.08	9.19	15.5	12.3										
90	5.86	6.41	4.95	6.00	5.22	6.78	5.41	6.84										
95	5.46	6.23	5.22	6.21	5.91	6.66	5.74	6.65										
100	6.24	6.40	6.87	7.34	8.01	7.99	7.46	6.81										
105	8.38	8.39	9.15	9.73	10.7	10.6	10.1	9.10										
110	11.0	11.0	12.0	12.6	13.9	13.7	13.2	11.9										
115	14.2	14.0	15.3	15.8	17.6	17.2	16.8	15.2										
120	17.9	17.4	19.0	19.4	21.8	21.3	21.0	19.0										
125	21.8	21.1	23.0	23.2	26.1	25.3	25.4	22.9										
130	26.0	24.9	27.1	27.1	30.7	29.6	29.9	27.2										
135	30.1	28.8	30.8	30.9	35.1	33.9	34.3	31.5										
140	33.7	33.2	34.3	35.2	38.9	38.3	38.3	36.0										
145	37.1	37.3	37.6	39.2	42.4	42.8	41.8	40.2										
150	40.4	40.7	40.9	42.4	45.9	46.3	45.1	44.2										
155	43.9	44.0	44.5	45.6	49.4	49.5	48.5	47.6										
160	47.8	47.6	48.5	49.2	53.1	52.7	52.2	51.1										
165	51.9	51.3	52.5	52.9	56.5	56.1	55.8	54.5										
170	55.6	55.0	56.1	56.3	59.0	58.6	58.6	57.5										
175	58.7	58.0	59.1	58.9	60.5	60.0	60.4	59.6										
180	60.7	60.1	60.8	60.4	60.7	60.2	60.8	60.4										

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: