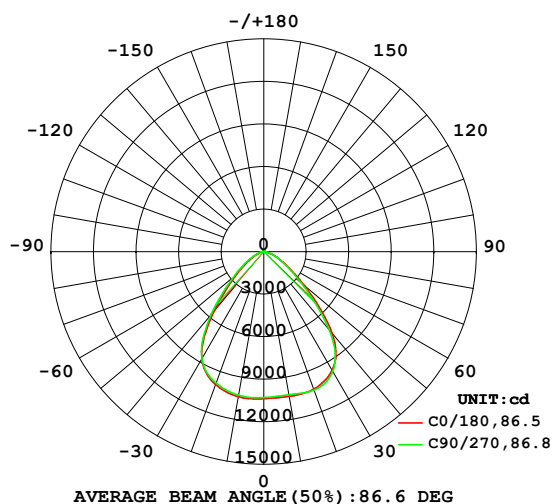


LUMINAIRE PHOTOMETRIC TEST REPORT

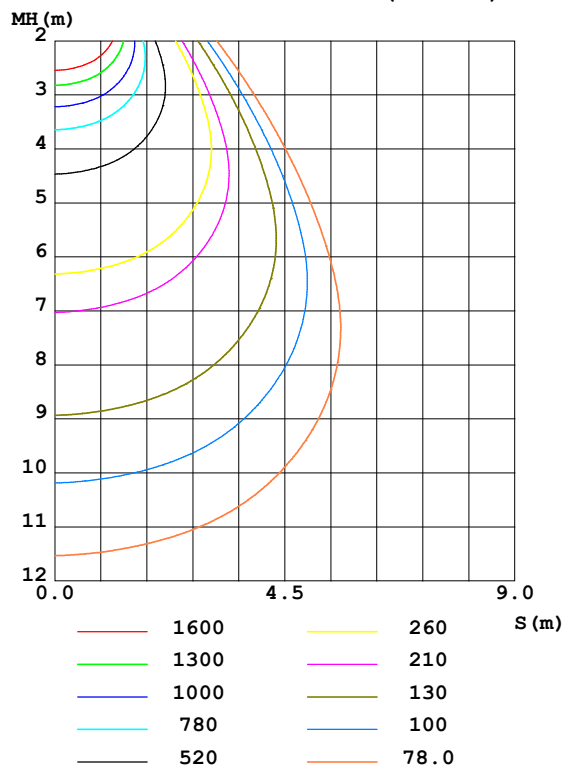
Test:U:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm					
NAME: H17-150W-3K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.23m		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 139.15 lm/W
MODEL		I _{max} (cd)	10423	S/MH (C0/180)		1.17
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH (C90/270)		1.19
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	20510	□ UP,DN (C0-180)		0.5,52.9
NOMINAL FLUX(lm)	20509.6	CIE CLASS	DIRECT	□ UP,DN (C180-360)		0.5,46.1
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:

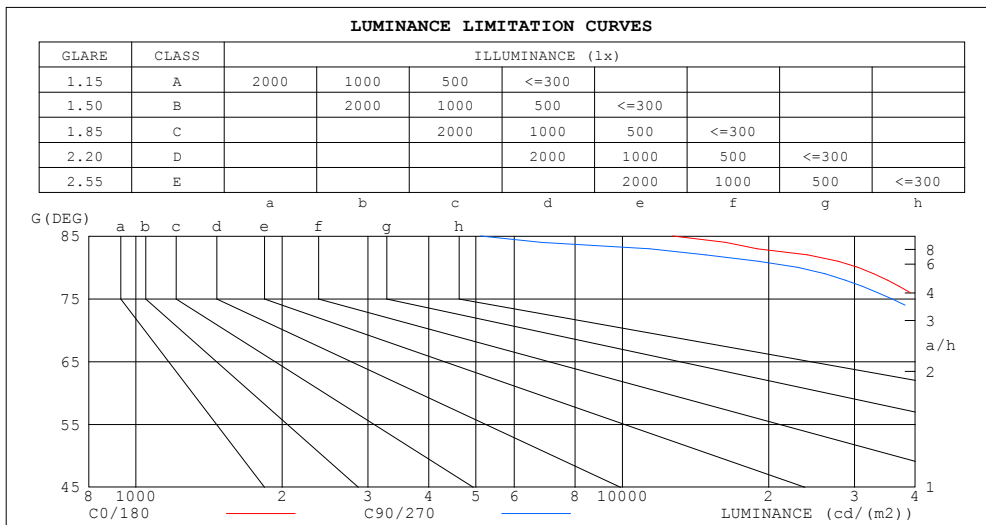
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1037	1026	1025	1029	1039	1031	1028	1028	0- 10	984.3	984.3	4.8,4.8
20	1032	1042	1038	1013	997.2	985.2	986.2	996.5	10- 20	2900	3884	18.9,18.9
30	965.1	990.8	974.0	917.5	873.8	858.0	873.4	904.6	20- 30	4502	8386	40.9,40.9
40	750.3	759.0	716.4	636.1	543.7	545.3	575.5	641.1	30- 40	4998	13384	65.3,65.3
50	377.6	383.0	347.6	304.4	250.9	257.9	279.1	315.8	40- 50	3589	16973	82.8,82.8
60	171.0	175.6	160.3	139.0	113.6	118.1	129.7	147.0	50- 60	1950	18924	92.3,92.3
70	73.67	75.85	67.64	58.15	46.97	49.65	54.16	62.80	60- 70	967.2	19891	97,97
80	21.99	16.80	16.53	10.49	10.59	9.103	13.58	12.34	70- 80	376.9	20268	98.8,98.8
90	0.8134	0.8906	0.6821	0.8269	0.7290	0.9440	0.7495	0.9441	80- 90	41.29	20309	99,99
100	0.8693	0.8853	0.9360	1.011	1.117	1.104	1.046	0.9415	90-100	9.344	20318	99.1,99.1
110	1.535	1.518	1.630	1.723	1.934	1.897	1.835	1.637	100-110	14.00	20332	99.1,99.1
120	2.479	2.406	2.587	2.662	3.027	2.940	2.905	2.606	110-120	21.65	20354	99.2,99.2
130	3.602	3.446	3.696	3.707	4.282	4.091	4.152	3.734	120-130	29.15	20383	99.4,99.4
140	4.671	4.586	4.692	4.818	5.417	5.273	5.295	4.948	130-140	33.98	20417	99.5,99.5
150	5.598	5.618	5.600	5.806	6.384	6.389	6.233	6.029	140-150	34.27	20451	99.7,99.7
160	6.620	6.570	6.634	6.738	7.394	7.305	7.212	6.991	150-160	29.64	20481	99.9,99.9
170	7.708	7.604	7.688	7.708	8.230	8.087	8.095	7.859	160-170	20.90	20502	100,100
180	8.436	8.327	8.357	8.273	8.472	8.301	8.381	8.257	170-180	7.719	20510	100,100
DEG	LUMINOUS INTENSITY:×10cd									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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm		
NAME: H17-150W-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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm		
NAME: H17-150W-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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm										
NAME: H17-150W-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	28.9	30.2	29.2	30.4	30.6	28.7	30.0	29.0	30.2	30.4
3H	29.2	30.4	29.5	30.6	30.9	29.0	30.2	29.3	30.4	30.6
4H	29.3	30.4	29.6	30.7	30.9	29.1	30.2	29.4	30.4	30.7
6H	29.3	30.4	29.7	30.6	30.9	29.1	30.1	29.4	30.3	30.6
8H	29.3	30.3	29.7	30.6	30.9	29.0	30.0	29.4	30.3	30.6
12H	29.3	30.2	29.6	30.5	30.8	29.0	29.9	29.3	30.2	30.5
4H 2H	29.0	30.1	29.3	30.4	30.6	28.8	29.9	29.1	30.2	30.4
3H	29.5	30.4	29.8	30.7	31.0	29.3	30.2	29.6	30.5	30.8
4H	29.6	30.5	30.0	30.8	31.1	29.4	30.2	29.8	30.6	30.9
6H	29.7	30.4	30.1	30.8	31.2	29.4	30.2	29.8	30.5	30.9
8H	29.7	30.4	30.1	30.7	31.1	29.4	30.1	29.8	30.5	30.8
12H	29.6	30.3	30.1	30.7	31.1	29.3	30.0	29.8	30.4	30.8
8H 4H	29.6	30.3	30.0	30.7	31.1	29.4	30.1	29.8	30.4	30.8
6H	29.7	30.3	30.2	30.7	31.1	29.4	30.0	29.9	30.4	30.9
8H	29.7	30.2	30.2	30.7	31.1	29.4	29.9	29.9	30.4	30.8
12H	29.7	30.1	30.2	30.6	31.1	29.4	29.8	29.9	30.3	30.8
12H 4H	29.6	30.2	30.0	30.6	31.0	29.3	30.0	29.8	30.4	30.8
6H	29.7	30.2	30.2	30.6	31.1	29.4	29.9	29.9	30.3	30.8
8H	29.7	30.1	30.2	30.6	31.1	29.4	29.8	29.9	30.3	30.8
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, 20510 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.5$)

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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm		
NAME: H17-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

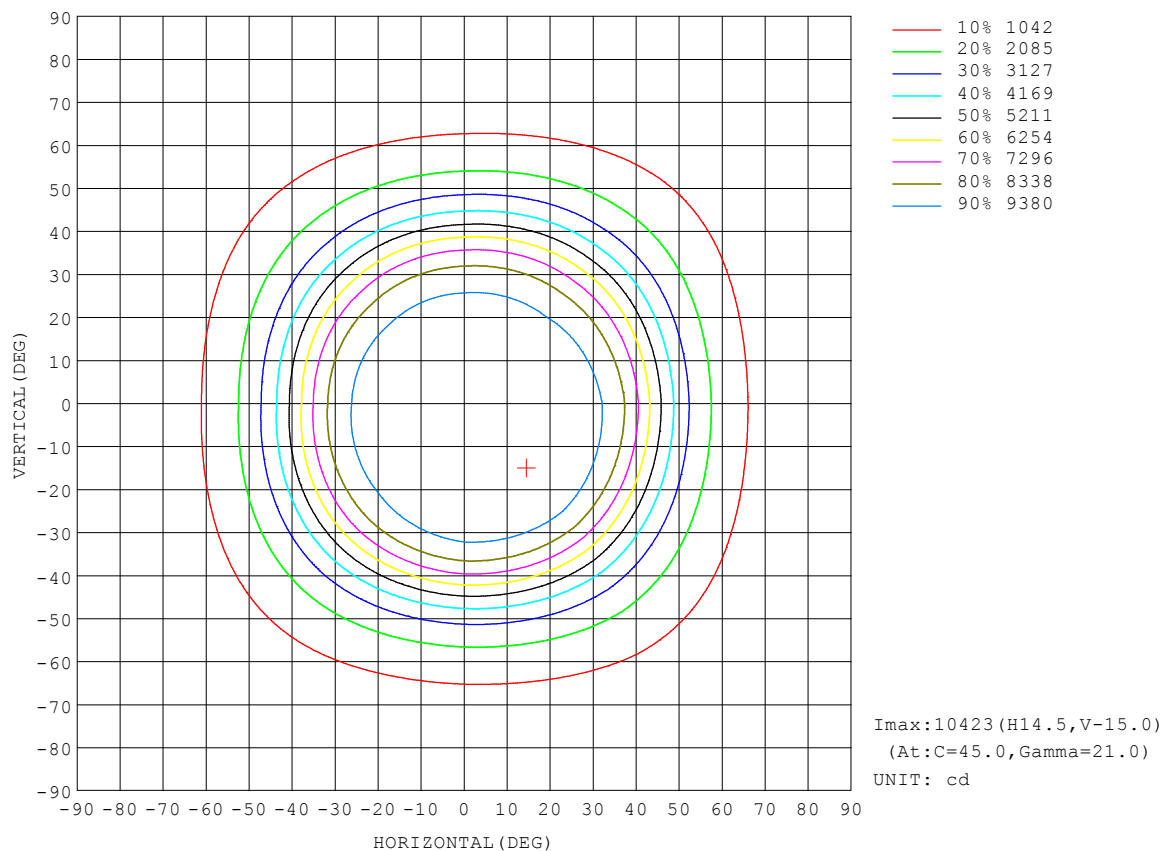
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm		
NAME: H17-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

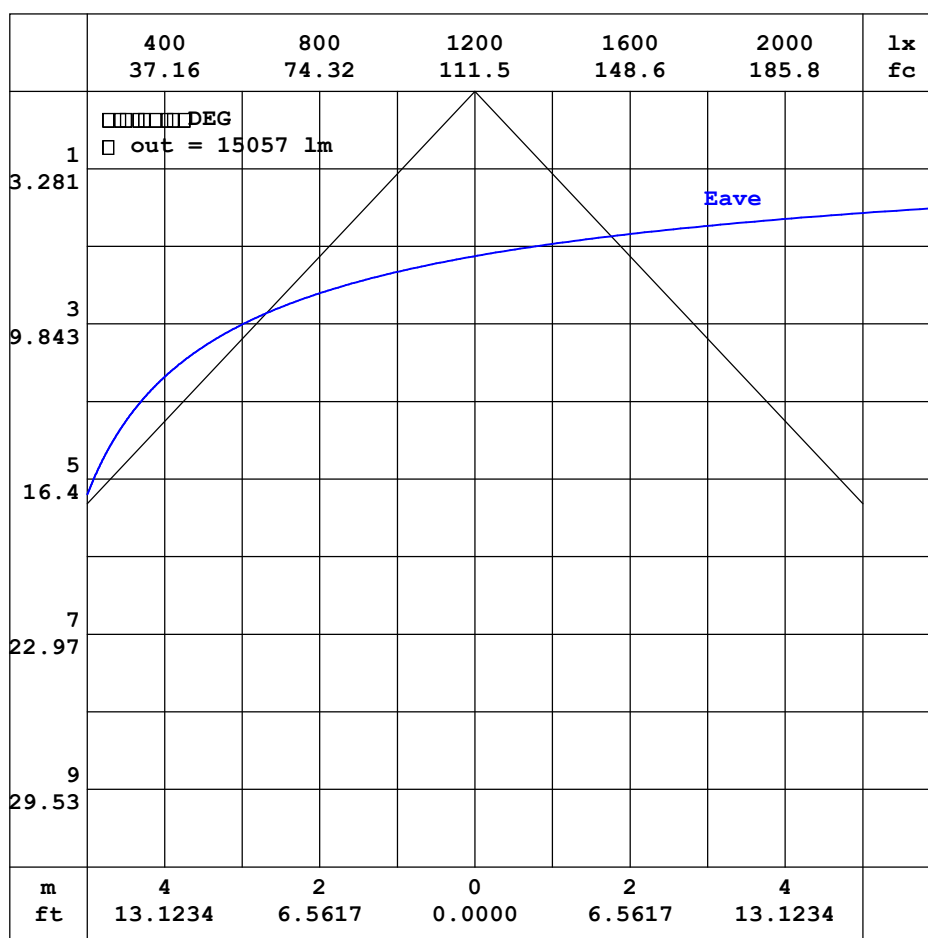


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm		
NAME: H17-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

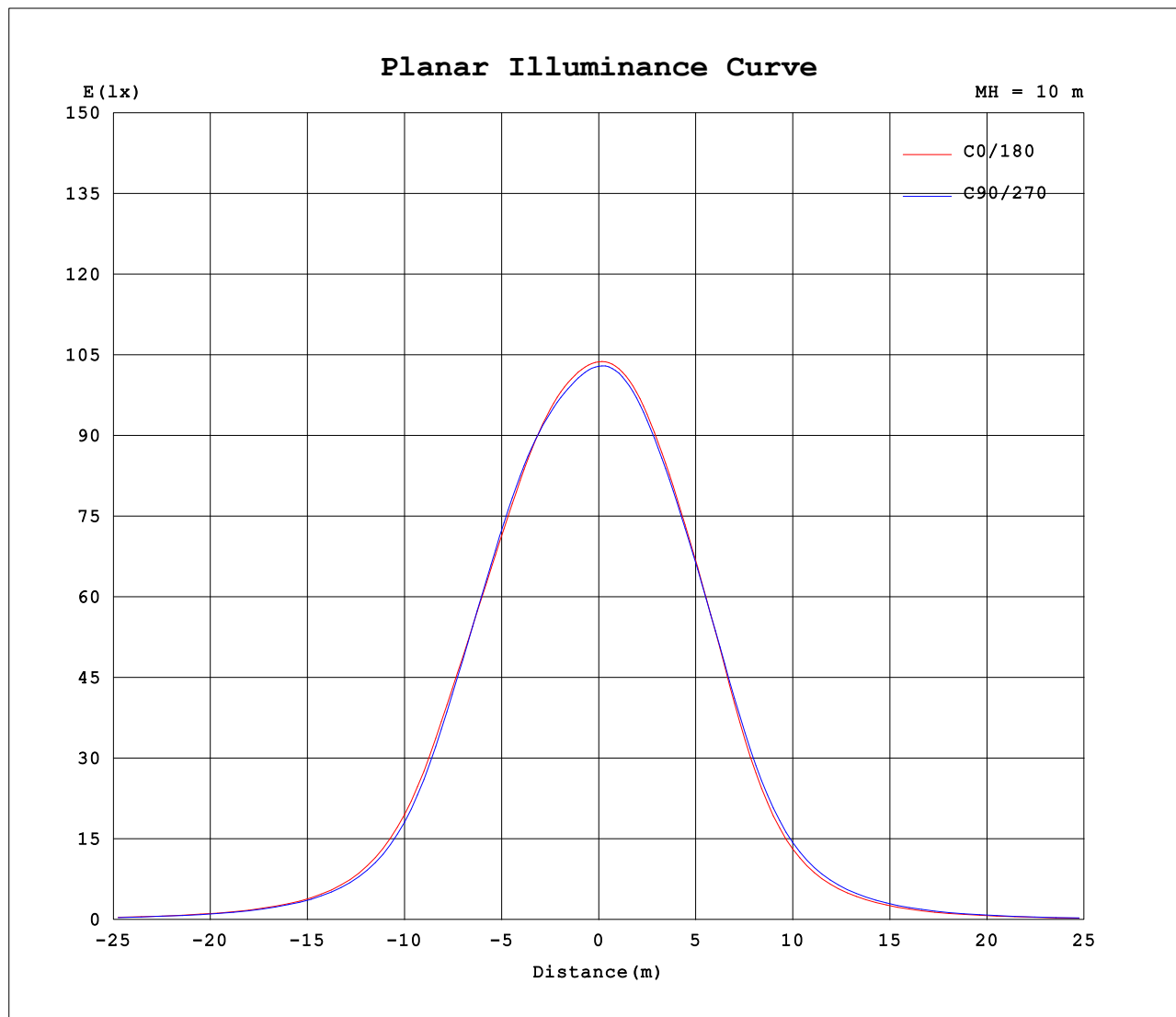


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:122.1V I:1.209A P:147.4W PF:0.9981 Freq:59.99Hz Lamp Flux:20509.6x1 lm		
NAME: H17-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1037	1033	1029	1027	1037	1033	1029	1027										
5	1035	1027	1024	1027	1041	1037	1033	1029										
10	1037	1026	1025	1029	1039	1031	1028	1028										
15	1039	1034	1033	1028	1025	1014	1012	1018										
20	1032	1042	1038	1013	997	985	986	996										
25	1008	1033	1024	979	953	939	945	963										
30	965	991	974	917	874	858	873	905										
35	889	907	879	811	732	721	749	804										
40	750	759	716	636	544	545	576	641										
45	554	559	514	449	372	378	406	463										
50	378	383	348	304	251	258	279	316										
55	253	260	236	207	171	176	193	216										
60	171	176	160	139	114	118	130	147										
65	114	116	107	92.1	74.6	78.0	85.3	97.9										
70	73.7	75.8	67.6	58.1	47.0	49.6	54.2	62.8										
75	44.2	44.2	38.5	32.0	25.9	27.9	31.3	35.7										
80	22.0	16.8	16.5	10.5	10.6	9.10	13.6	12.3										
85	4.59	1.74	1.85	1.19	1.02	1.28	1.98	1.68										
90	0.81	0.89	0.68	0.83	0.73	0.94	0.75	0.94										
95	0.76	0.86	0.72	0.86	0.82	0.93	0.80	0.92										
100	0.87	0.89	0.94	1.01	1.12	1.10	1.05	0.94										
105	1.16	1.16	1.24	1.33	1.49	1.47	1.40	1.25										
110	1.53	1.52	1.63	1.72	1.93	1.90	1.83	1.64										
115	1.97	1.93	2.08	2.17	2.45	2.39	2.33	2.09										
120	2.48	2.41	2.59	2.66	3.03	2.94	2.91	2.61										
125	3.02	2.91	3.13	3.17	3.64	3.50	3.51	3.15										
130	3.60	3.45	3.70	3.71	4.28	4.09	4.15	3.73										
135	4.17	3.99	4.22	4.24	4.88	4.67	4.77	4.32										
140	4.67	4.59	4.69	4.82	5.42	5.27	5.29	4.95										
145	5.14	5.15	5.15	5.36	5.90	5.90	5.77	5.54										
150	5.60	5.62	5.60	5.81	6.38	6.39	6.23	6.03										
155	6.08	6.07	6.09	6.24	6.87	6.83	6.70	6.51										
160	6.62	6.57	6.63	6.74	7.39	7.30	7.21	6.99										
165	7.18	7.09	7.19	7.24	7.87	7.74	7.70	7.46										
170	7.71	7.60	7.69	7.71	8.23	8.09	8.09	7.86										
175	8.15	8.04	8.10	8.07	8.44	8.28	8.33	8.15										
180	8.44	8.33	8.36	8.27	8.47	8.30	8.38	8.26										

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: