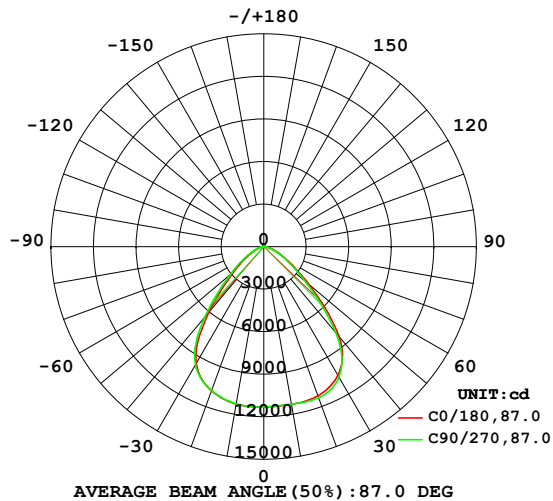


LUMINAIRE PHOTOMETRIC TEST REPORT

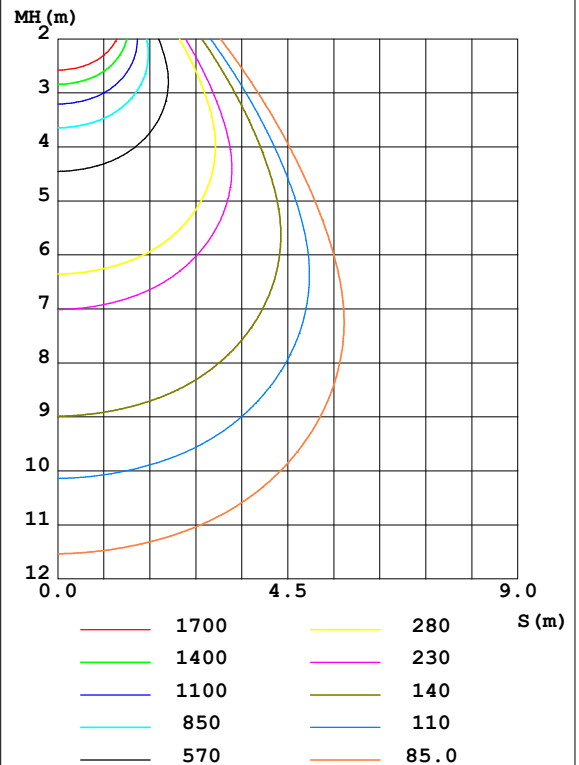
Test:U:122.1V I:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm					
NAME: H17-150W-4K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.23m		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 159.24 lm/W
MODEL		Imax(cd)	11352	S/MH(C0/180)	1.17	
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.20	
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	22571	□ UP,DN(C0-180)	0.5,52.8	
NOMINAL FLUX(lm)	22570.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,46.3	
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:

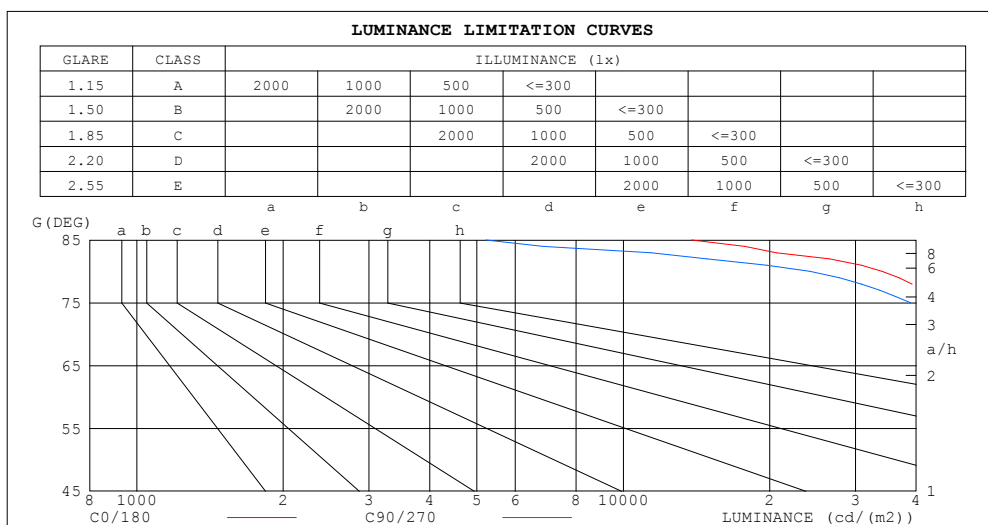
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1130	1126	1128	1132	1127	1124	1125	1128	0- 10	1078	1078	4.78,4.78
20	1119	1135	1134	1111	1081	1074	1079	1093	10- 20	3167	4245	18.8,18.8
30	1047	1077	1062	1009	952.4	943.4	964.3	995.5	20- 30	4913	9158	40.6,40.6
40	825.4	835.8	787.8	708.8	601.6	604.3	646.6	714.6	30- 40	5504	14662	65,65
50	419.2	425.1	382.4	339.5	277.4	286.0	313.0	352.3	40- 50	3986	18647	82.6,82.6
60	189.6	194.4	174.9	154.9	125.5	131.4	145.4	163.2	50- 60	2164	20811	92.2,92.2
70	82.10	83.73	74.13	65.17	52.07	55.46	61.73	70.16	60- 70	1074	21885	97,97
80	24.54	17.81	17.44	11.63	11.52	9.834	15.94	13.83	70- 80	419.4	22305	98.8,98.8
90	0.9018	0.9874	0.7594	0.9310	0.8059	1.046	0.8344	1.043	80- 90	45.32	22350	99,99
100	0.9580	0.9824	1.047	1.125	1.227	1.218	1.145	1.047	90-100	10.36	22360	99.1,99.1
110	1.693	1.677	1.825	1.914	2.125	2.089	2.010	1.820	100-110	15.49	22376	99.1,99.1
120	2.726	2.657	2.884	2.949	3.315	3.229	3.178	2.885	110-120	23.90	22400	99.2,99.2
130	3.956	3.792	4.107	4.098	4.676	4.485	4.528	4.124	120-130	32.10	22432	99.4,99.4
140	5.118	5.035	5.194	5.318	5.903	5.777	5.795	5.448	130-140	37.33	22469	99.6,99.6
150	6.119	6.163	6.184	6.401	6.950	6.997	6.813	6.675	140-150	37.62	22507	99.7,99.7
160	7.234	7.199	7.319	7.424	8.048	7.994	7.894	7.706	150-160	32.51	22539	99.9,99.9
170	8.417	8.316	8.466	8.479	8.953	8.851	8.862	8.662	160-170	22.91	22562	100,100
180	9.208	9.099	9.182	9.091	9.201	9.090	9.188	9.100	170-180	8.457	22571	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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm		
NAME: H17-150W-4K	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	13821	5217
80	34053	24198
75	46083	38924
70	57845	52226
65	72114	66339
60	91395	84298
55	117755	108616
50	157142	143352
45	209197	192780

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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm		
NAME: H17-150W-4K	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 .130 .041	.214 .123 .039	.201 .116 .037	.190 .110 .036	
2.0	.228 .125 .038	.222 .122 .038	.210 .117 .036	.199 .112 .035	.189 .107 .034	
3.0	.217 .116 .035	.212 .113 .034	.201 .109 .033	.192 .105 .032	.183 .101 .031	
4.0	.205 .107 .031	.200 .105 .031	.191 .102 .030	.183 .098 .030	.175 .095 .029	
5.0	.194 .099 .029	.190 .097 .028	.182 .095 .028	.174 .092 .027	.167 .089 .027	
6.0	.183 .092 .026	.179 .091 .026	.172 .088 .026	.165 .086 .025	.159 .084 .025	
7.0	.173 .085 .024	.170 .084 .024	.163 .083 .024	.157 .081 .023	.152 .079 .023	
8.0	.164 .080 .022	.161 .079 .022	.155 .077 .022	.150 .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 .020	.140 .069 .019	.136 .067 .019	.132 .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 .077	.095 .073 .054	.055 .043 .032	.018 .014 .010	
4.0	.154 .108 .072	.132 .093 .063	.091 .065 .044	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.126 .084 .052	.087 .059 .037	.050 .034 .022	.016 .011 .007	
6.0	.140 .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	.128 .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	.043 .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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm										
NAME: H17-150W-4K					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	29.3	30.5	29.5	30.8	31.0	29.0	30.3	29.3	30.5	30.7
3H	29.6	30.8	29.9	31.0	31.2	29.3	30.5	29.6	30.7	31.0
4H	29.7	30.8	30.0	31.0	31.3	29.4	30.5	29.7	30.7	31.0
6H	29.7	30.7	30.1	31.0	31.3	29.4	30.4	29.7	30.7	31.0
8H	29.7	30.7	30.0	31.0	31.3	29.3	30.3	29.7	30.6	30.9
12H	29.7	30.6	30.0	30.9	31.2	29.3	30.2	29.6	30.5	30.8
4H 2H	29.4	30.5	29.7	30.7	31.0	29.2	30.3	29.5	30.5	30.8
3H	29.8	30.8	30.2	31.1	31.4	29.6	30.5	29.9	30.8	31.1
4H	30.0	30.8	30.4	31.2	31.5	29.7	30.6	30.1	30.9	31.2
6H	30.1	30.8	30.5	31.2	31.6	29.7	30.5	30.1	30.8	31.2
8H	30.1	30.7	30.5	31.1	31.5	29.7	30.4	30.1	30.8	31.2
12H	30.0	30.7	30.5	31.0	31.5	29.7	30.3	30.1	30.7	31.1
8H 4H	30.0	30.7	30.4	31.0	31.4	29.7	30.4	30.1	30.8	31.2
6H	30.1	30.7	30.5	31.1	31.5	29.8	30.3	30.2	30.7	31.2
8H	30.1	30.6	30.6	31.0	31.5	29.7	30.2	30.2	30.7	31.1
12H	30.1	30.5	30.5	30.9	31.4	29.7	30.1	30.2	30.6	31.1
12H 4H	29.9	30.6	30.4	31.0	31.4	29.7	30.3	30.1	30.7	31.1
6H	30.0	30.5	30.5	31.0	31.5	29.7	30.2	30.2	30.7	31.1
8H	30.0	30.5	30.5	30.9	31.4	29.7	30.1	30.2	30.6	31.1
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, 22571 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.8$)

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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm		
NAME: H17-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

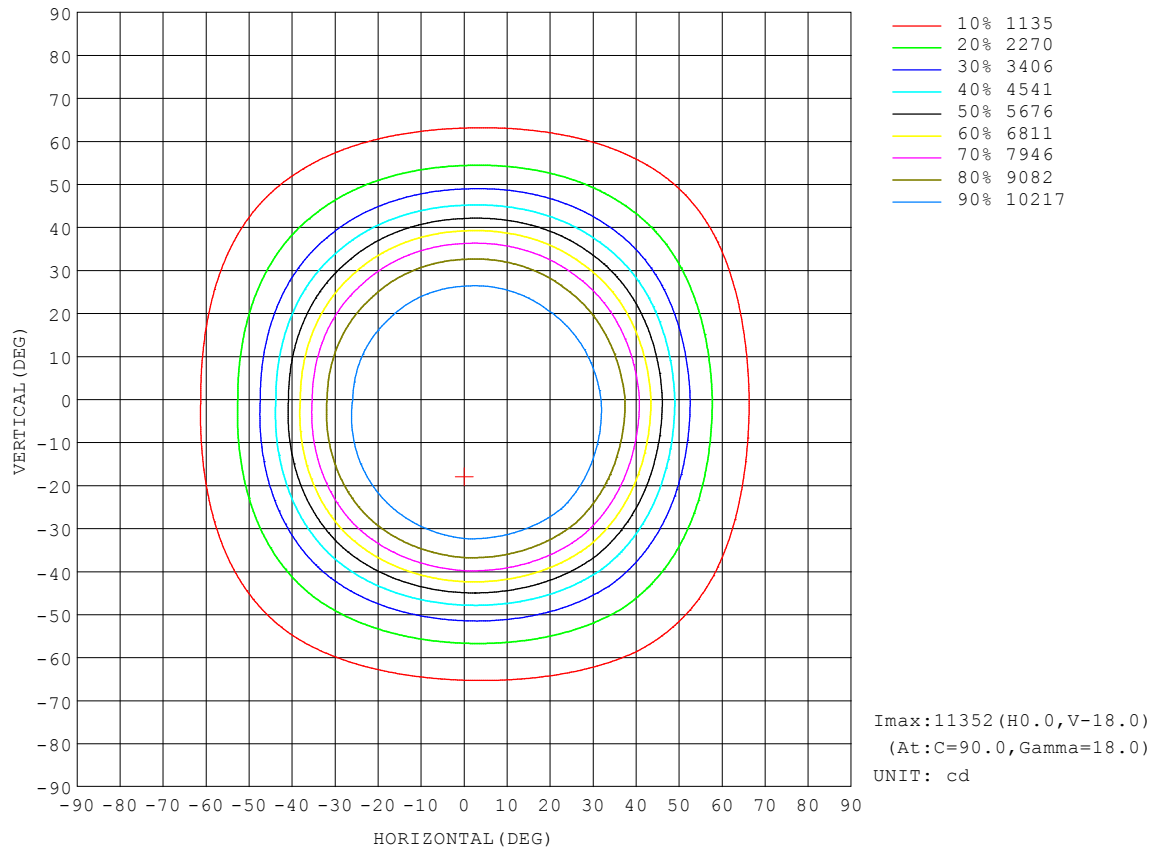
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	72	86	78	72	83	78	72	66
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	89	84	95	89	84	93	87	83	76
2.00	102	96	91	100	94	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	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	102	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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm		
NAME: H17-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

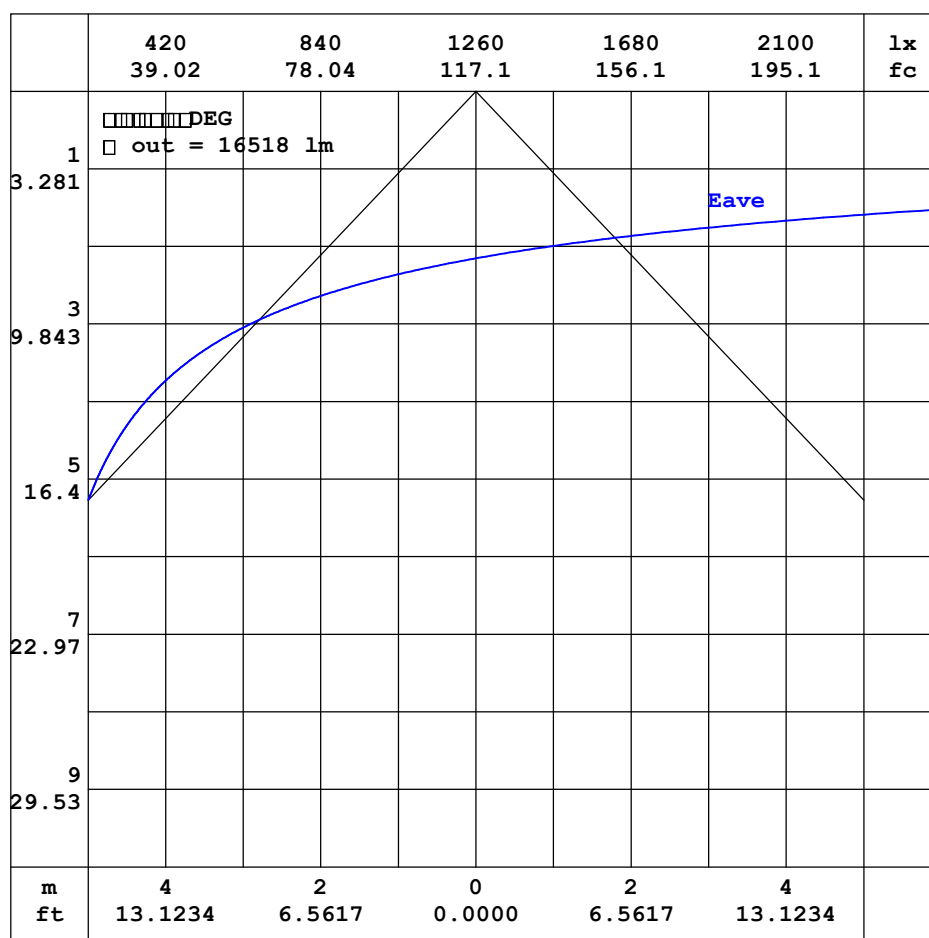


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm		
NAME: H17-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

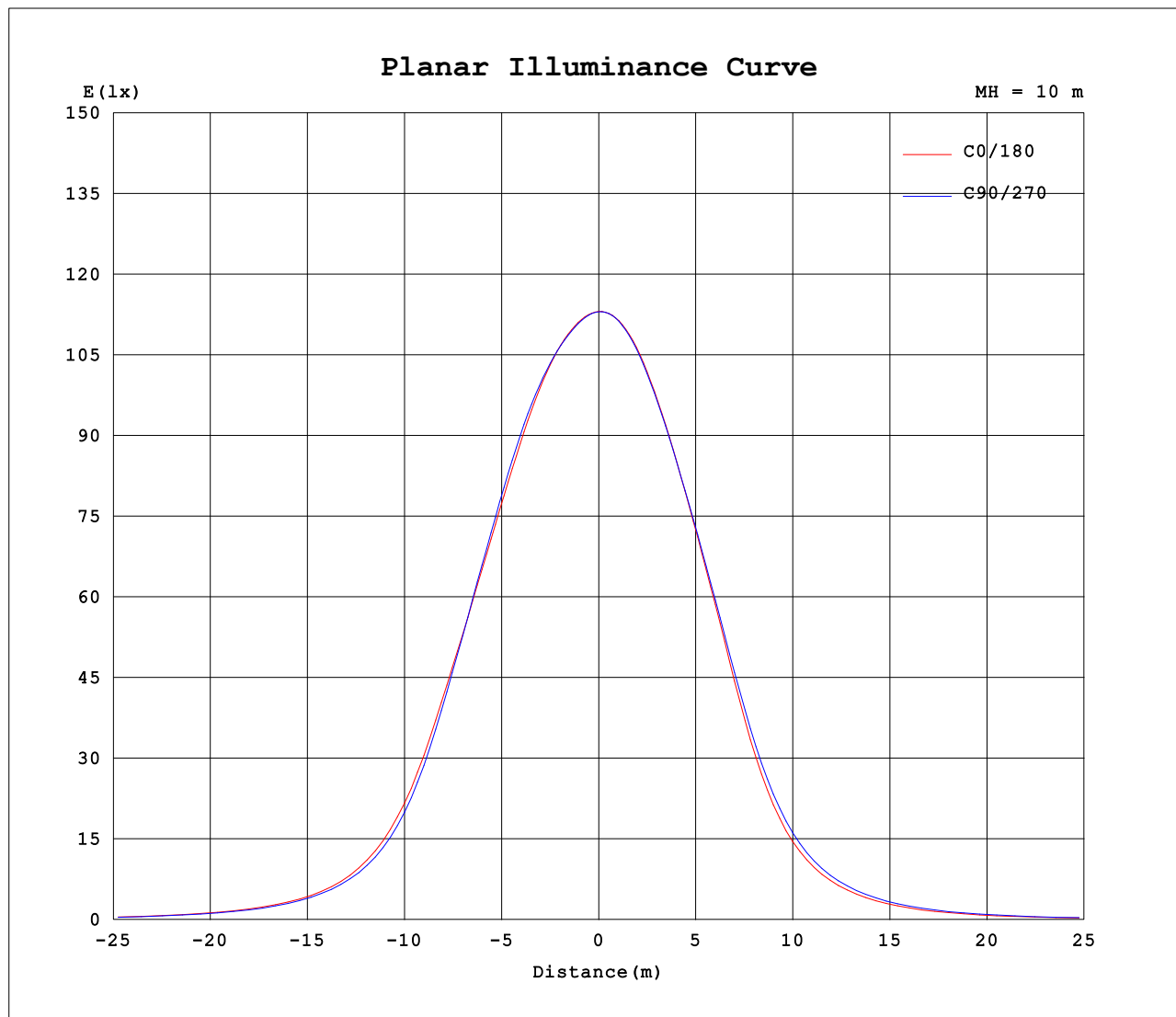


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.163A P:141.7W PF:0.9979 Freq:59.97Hz Lamp Flux:22570.7x1 lm		
NAME: H17-150W-4K	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	1131	1131	1130	1131	1131	1131	1130	1131										
5	1129	1127	1127	1131	1132	1132	1131	1132										
10	1130	1126	1128	1132	1127	1124	1125	1128										
15	1129	1131	1133	1127	1111	1105	1108	1117										
20	1119	1135	1134	1111	1081	1074	1079	1093										
25	1093	1121	1114	1074	1033	1026	1037	1056										
30	1047	1077	1062	1009	952	943	964	996										
35	966	991	962	897	807	800	837	891										
40	825	836	788	709	602	604	647	715										
45	614	619	566	501	412	419	457	516										
50	419	425	382	339	277	286	313	352										
55	280	287	259	231	188	196	216	241										
60	190	194	175	155	125	131	145	163										
65	126	129	116	103	82.7	87.0	96.3	109										
70	82.1	83.7	74.1	65.2	52.1	55.5	61.7	70.2										
75	49.5	48.3	41.8	35.7	28.7	31.2	36.1	39.9										
80	24.5	17.8	17.4	11.6	11.5	9.83	15.9	13.8										
85	5.00	1.92	1.89	1.34	1.10	1.42	2.31	1.88										
90	0.90	0.99	0.76	0.93	0.81	1.05	0.83	1.04										
95	0.84	0.96	0.80	0.96	0.91	1.03	0.88	1.02										
100	0.96	0.98	1.05	1.12	1.23	1.22	1.14	1.05										
105	1.28	1.29	1.39	1.48	1.64	1.62	1.54	1.39										
110	1.69	1.68	1.83	1.91	2.12	2.09	2.01	1.82										
115	2.18	2.14	2.33	2.40	2.68	2.62	2.56	2.31										
120	2.73	2.66	2.88	2.95	3.31	3.23	3.18	2.89										
125	3.32	3.21	3.49	3.51	3.97	3.84	3.84	3.48										
130	3.96	3.79	4.11	4.10	4.68	4.48	4.53	4.12										
135	4.58	4.38	4.67	4.67	5.32	5.12	5.22	4.77										
140	5.12	5.04	5.19	5.32	5.90	5.78	5.80	5.45										
145	5.63	5.65	5.69	5.91	6.42	6.46	6.31	6.11										
150	6.12	6.16	6.18	6.40	6.95	7.00	6.81	6.67										
155	6.65	6.66	6.72	6.88	7.49	7.48	7.33	7.15										
160	7.23	7.20	7.32	7.42	8.05	7.99	7.89	7.71										
165	7.85	7.77	7.92	7.97	8.56	8.48	8.43	8.22										
170	8.42	8.32	8.47	8.48	8.95	8.85	8.86	8.66										
175	8.89	8.79	8.91	8.87	9.17	9.07	9.13	8.98										
180	9.21	9.10	9.18	9.09	9.20	9.09	9.19	9.10										

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: