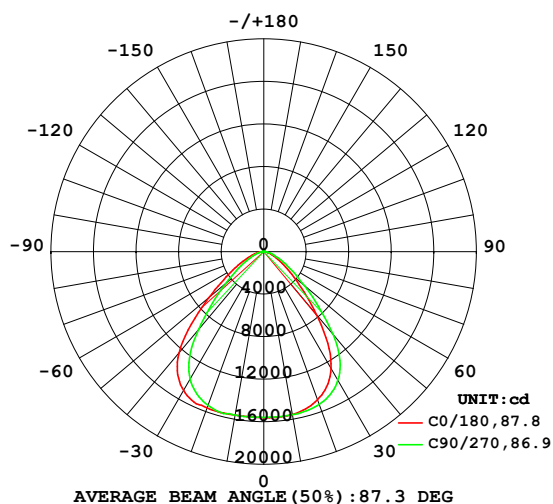


LUMINAIRE PHOTOMETRIC TEST REPORT

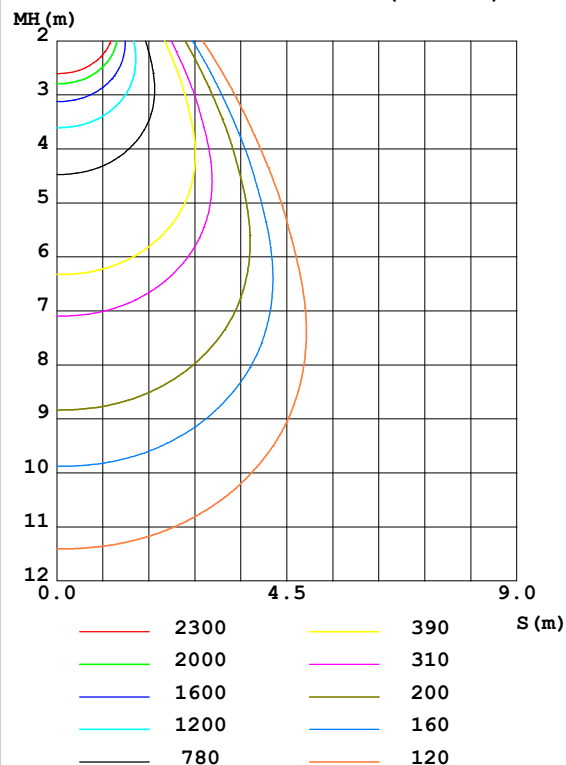
Test:U:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 167.04 lm/W			
MODEL		I _{max} (cd)	15696	S/MH (C0/180)	1.36
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	31826	□ UP,DN (C0-180)	0.5,48.3
NOMINAL FLUX(lm)	31826.4	CIE CLASS	DIRECT	□ UP,DN (C180-360)	0.5,50.8
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:

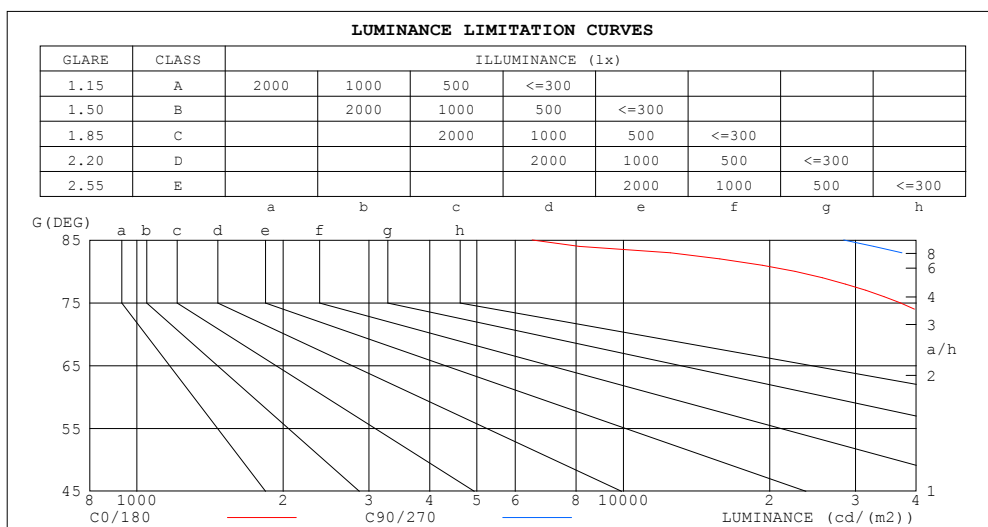
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1554	1563	1557	1556	1560	1561	1560	1551	0- 10	1487	1487	4.67,4.67
20	1481	1510	1527	1568	1564	1554	1537	1480	10- 20	4385	5872	18.5,18.5
30	1267	1322	1395	1487	1509	1465	1385	1264	20- 30	6790	12662	39.8,39.8
40	770.9	842.3	1011	1204	1240	1163	953.7	767.1	30- 40	7588	20250	63.6,63.6
50	367.7	398.7	500.5	653.8	676.0	614.7	468.0	364.6	40- 50	5644	25894	81.4,81.4
60	170.4	187.5	240.3	309.1	318.7	288.3	219.9	173.0	50- 60	3165	29060	91.3,91.3
70	71.65	80.19	108.7	142.8	143.8	132.5	94.27	73.56	60- 70	1630	30690	96.4,96.4
80	16.25	20.35	34.19	49.86	51.13	44.05	27.87	16.15	70- 80	694.5	31384	98.6,98.6
90	1.600	1.519	1.356	1.851	3.389	2.119	1.232	1.439	80- 90	135.0	31519	99,99
100	2.016	1.860	1.539	1.377	1.233	1.315	1.556	1.894	90-100	15.79	31535	99.1,99.1
110	3.289	3.102	2.635	2.214	2.143	2.247	2.670	3.146	100-110	22.17	31557	99.2,99.2
120	4.833	4.633	4.088	3.538	3.492	3.628	4.153	4.720	110-120	33.48	31591	99.3,99.3
130	6.504	6.273	5.720	5.110	5.161	5.276	5.880	6.445	120-130	44.29	31635	99.4,99.4
140	8.008	7.861	7.344	6.737	6.976	7.056	7.665	8.191	130-140	51.27	31686	99.6,99.6
150	9.408	9.291	8.810	8.263	8.620	8.715	9.245	9.701	140-150	51.64	31738	99.7,99.7
160	10.96	10.75	10.34	9.764	10.24	10.28	10.77	11.16	150-160	44.96	31783	99.9,99.9
170	12.29	12.05	11.80	11.35	11.83	11.76	12.13	12.28	160-170	31.73	31815	100,100
180	12.76	12.59	12.66	12.49	12.77	12.58	12.67	12.48	170-180	11.70	31826	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:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-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	6503	28380
80	22551	47451
75	37055	61445
70	50477	76608
65	64709	93565
60	82123	115820
55	105926	145140
50	137848	187634
45	182731	248445

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:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-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	.240 .136 .043	.233 .133 .042	.219 .126 .040	.207 .119 .038	.196 .113 .037	
2.0	.232 .127 .039	.226 .125 .038	.214 .119 .037	.204 .114 .036	.194 .110 .035	
3.0	.220 .117 .035	.215 .115 .035	.205 .111 .034	.195 .107 .033	.187 .103 .032	
4.0	.208 .108 .032	.203 .106 .031	.194 .103 .031	.186 .100 .030	.178 .097 .029	
5.0	.196 .100 .029	.192 .098 .029	.184 .096 .028	.176 .093 .028	.169 .091 .027	
6.0	.185 .093 .027	.181 .091 .026	.174 .089 .026	.167 .087 .026	.161 .085 .025	
7.0	.175 .086 .024	.171 .085 .024	.165 .083 .024	.159 .081 .024	.153 .080 .023	
8.0	.165 .081 .023	.162 .080 .023	.156 .078 .022	.151 .076 .022	.146 .075 .022	
9.0	.156 .076 .021	.154 .075 .021	.148 .073 .021	.144 .072 .021	.139 .071 .020	
10.0	.148 .071 .020	.146 .070 .020	.141 .069 .019	.137 .068 .019	.133 .067 .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 .147	.156 .141 .127	.107 .097 .088	.062 .056 .051	.020 .018 .016	
2.0	.172 .140 .113	.147 .120 .097	.101 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.162 .121 .089	.139 .105 .077	.096 .073 .054	.055 .043 .032	.018 .014 .010	
4.0	.154 .108 .072	.132 .093 .063	.091 .065 .044	.053 .038 .026	.017 .012 .009	
5.0	.147 .097 .060	.126 .084 .052	.087 .058 .037	.050 .034 .022	.016 .011 .007	
6.0	.140 .088 .051	.120 .076 .044	.083 .053 .031	.048 .031 .019	.016 .010 .006	
7.0	.134 .081 .044	.115 .070 .038	.080 .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	.123 .070 .035	.106 .061 .030	.073 .043 .022	.043 .025 .013	.014 .008 .004	
10.0	.118 .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:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm										
NAME: H17XL-200W-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	27.8	29.0	28.0	29.2	29.5	28.9	30.2	29.2	30.4	30.6
3H	28.0	29.2	28.3	29.4	29.7	29.3	30.5	29.6	30.7	31.0
4H	28.1	29.2	28.4	29.5	29.7	29.4	30.6	29.8	30.8	31.1
6H	28.1	29.1	28.4	29.4	29.7	29.5	30.5	29.8	30.8	31.1
8H	28.0	29.0	28.4	29.3	29.6	29.5	30.5	29.8	30.8	31.1
12H	28.0	28.9	28.3	29.2	29.5	29.5	30.4	29.8	30.7	31.0
4H 2H	27.9	29.0	28.2	29.3	29.5	28.9	30.0	29.2	30.3	30.5
3H	28.3	29.2	28.6	29.5	29.9	29.4	30.4	29.8	30.7	31.0
4H	28.4	29.3	28.8	29.6	29.9	29.7	30.5	30.0	30.8	31.2
6H	28.4	29.2	28.8	29.5	29.9	29.8	30.5	30.2	30.9	31.3
8H	28.4	29.1	28.8	29.5	29.9	29.8	30.5	30.2	30.9	31.3
12H	28.3	29.0	28.8	29.4	29.8	29.8	30.4	30.2	30.8	31.2
8H 4H	28.4	29.1	28.8	29.5	29.9	29.6	30.3	30.0	30.7	31.1
6H	28.5	29.0	28.9	29.5	29.9	29.8	30.3	30.2	30.8	31.2
8H	28.4	29.0	28.9	29.4	29.9	29.8	30.3	30.3	30.8	31.2
12H	28.4	28.8	28.9	29.3	29.8	29.8	30.2	30.3	30.7	31.2
12H 4H	28.4	29.0	28.8	29.4	29.8	29.6	30.2	30.0	30.6	31.0
6H	28.4	28.9	28.9	29.4	29.8	29.7	30.2	30.2	30.7	31.1
8H	28.4	28.9	28.9	29.3	29.8	29.8	30.2	30.3	30.7	31.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 0.9 / - 1.2				
1.5H	+ 1.2 / - 1.0					+ 1.3 / - 1.1				
2.0H	+ 2.0 / - 1.6					+ 2.4 / - 1.8				

CIE Pub.117, 31826 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.0$)

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:

UTILIZATION FACTORS TABLE

Test:U:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

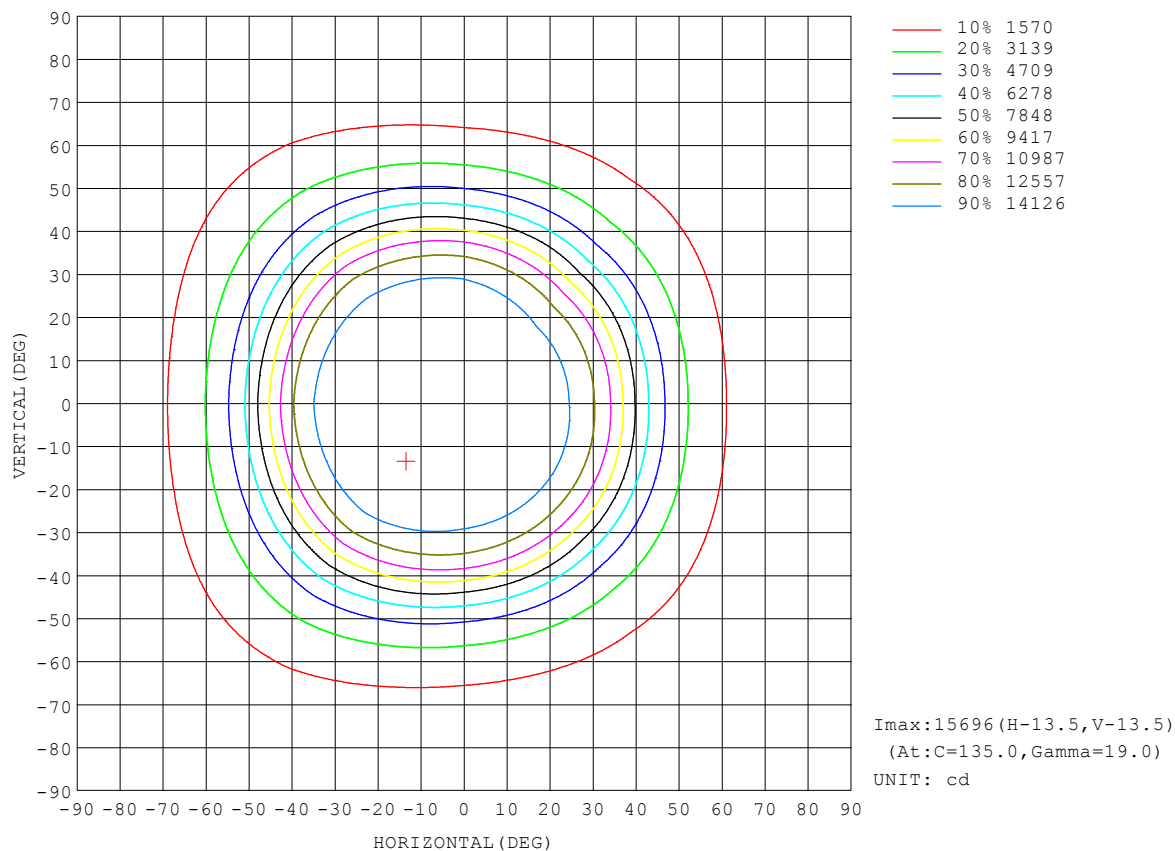
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	78	69	63	77	69	63	76	68	63	57
1.00	86	77	71	85	77	71	83	77	71	65
1.25	92	84	79	91	83	78	88	82	77	71
1.50	96	89	83	95	88	83	92	86	82	75
2.00	101	95	90	100	94	89	96	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	97	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	89
5.00	111	108	105	109	106	103	105	102	100	91
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:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

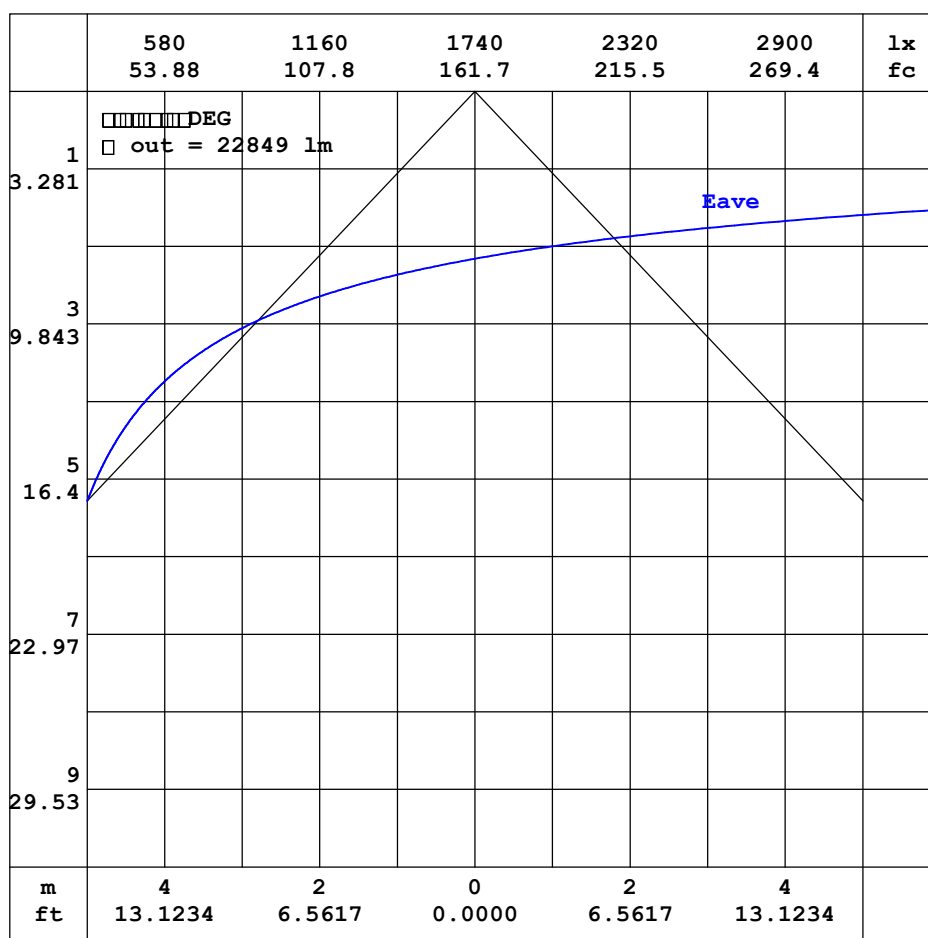


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

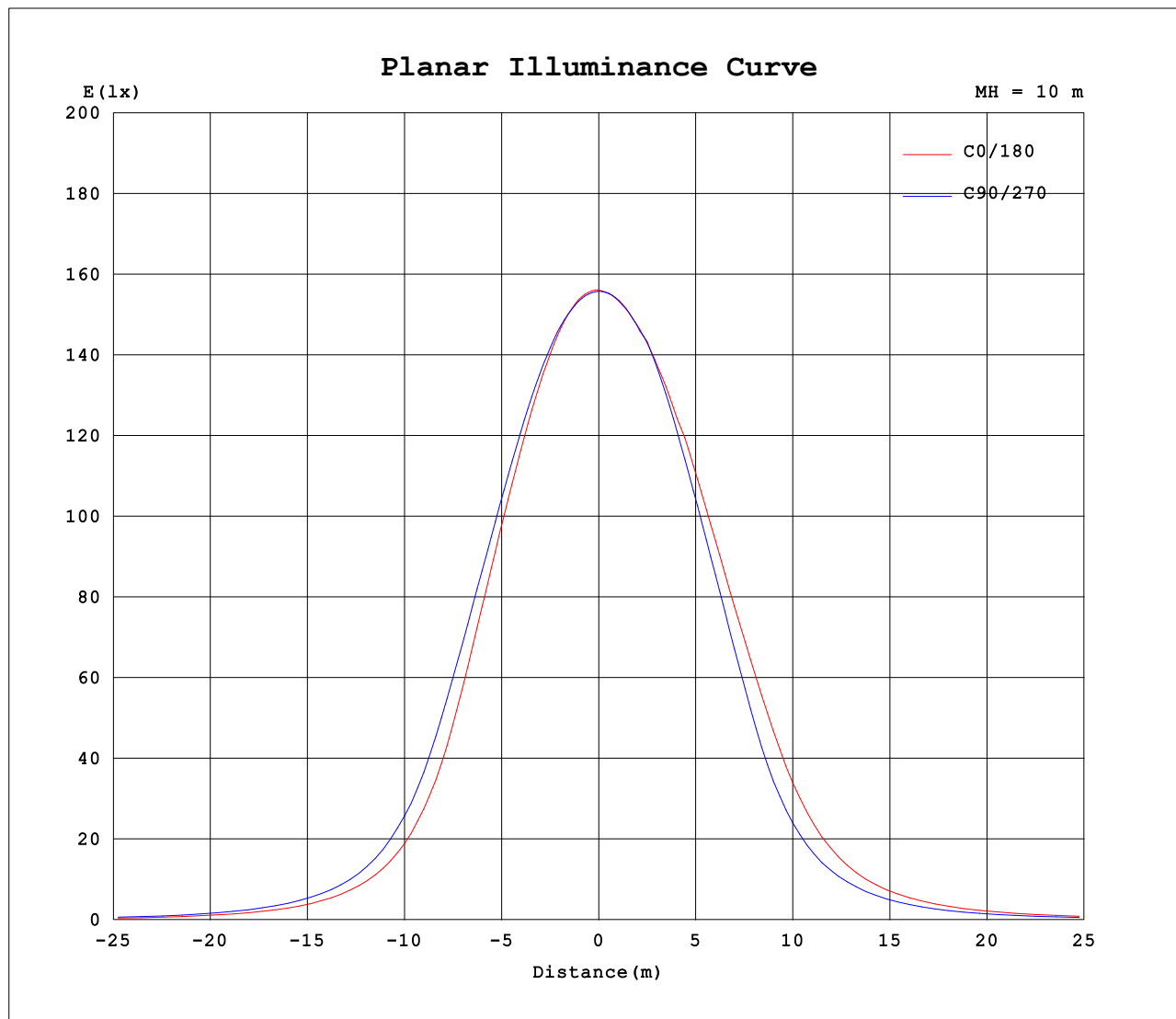


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:122.0V I:1.569A P:190.5W PF:0.9955 Freq:59.98Hz Lamp Flux:31826.4x1 lm		
NAME: H17XL-200W-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	1561	1559	1558	1556	1561	1559	1558	1556										
5	1562	1560	1558	1554	1559	1559	1560	1557										
10	1554	1563	1557	1556	1560	1561	1560	1551										
15	1529	1551	1550	1558	1566	1563	1566	1528										
20	1481	1510	1527	1568	1564	1554	1537	1480										
25	1401	1440	1481	1542	1559	1525	1482	1399										
30	1267	1322	1395	1487	1509	1465	1385	1264										
35	1051	1125	1251	1384	1411	1356	1221	1044										
40	771	842	1011	1204	1240	1163	954	767										
45	536	584	729	926	961	875	681	531										
50	368	399	501	654	676	615	468	365										
55	252	275	345	449	462	417	323	252										
60	170	188	240	309	319	288	220	173										
65	113	125	164	212	217	198	145	116										
70	71.6	80.2	109	143	144	133	94.3	73.6										
75	39.8	45.9	66.0	91.4	90.9	83.7	56.2	40.5										
80	16.3	20.4	34.2	49.9	51.1	44.0	27.9	16.1										
85	2.35	3.19	10.3	17.1	21.6	14.5	6.97	1.98										
90	1.60	1.52	1.36	1.85	3.39	2.12	1.23	1.44										
95	1.53	1.46	1.26	1.38	1.24	1.33	1.20	1.43										
100	2.02	1.86	1.54	1.38	1.23	1.31	1.56	1.89										
105	2.62	2.44	2.03	1.69	1.62	1.71	2.06	2.47										
110	3.29	3.10	2.63	2.21	2.14	2.25	2.67	3.15										
115	4.02	3.84	3.33	2.83	2.77	2.89	3.37	3.90										
120	4.83	4.63	4.09	3.54	3.49	3.63	4.15	4.72										
125	5.67	5.46	4.89	4.30	4.29	4.42	4.99	5.55										
130	6.50	6.27	5.72	5.11	5.16	5.28	5.88	6.44										
135	7.28	7.08	6.55	5.93	6.06	6.16	6.77	7.33										
140	8.01	7.86	7.34	6.74	6.98	7.06	7.67	8.19										
145	8.70	8.59	8.09	7.53	7.82	7.92	8.46	8.95										
150	9.41	9.29	8.81	8.26	8.62	8.71	9.25	9.70										
155	10.2	10.0	9.55	8.99	9.40	9.48	10.0	10.4										
160	11.0	10.7	10.3	9.76	10.2	10.3	10.8	11.2										
165	11.7	11.5	11.1	10.6	11.1	11.1	11.5	11.8										
170	12.3	12.1	11.8	11.4	11.8	11.8	12.1	12.3										
175	12.7	12.5	12.4	12.0	12.4	12.3	12.5	12.5										
180	12.8	12.6	12.7	12.5	12.8	12.6	12.7	12.5										

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: