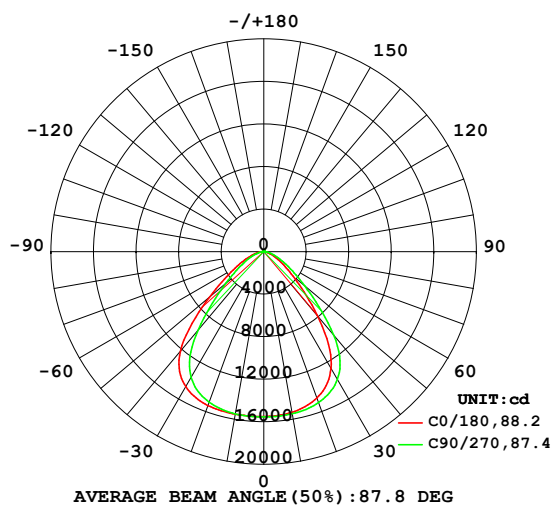


LUMINAIRE PHOTOMETRIC TEST REPORT

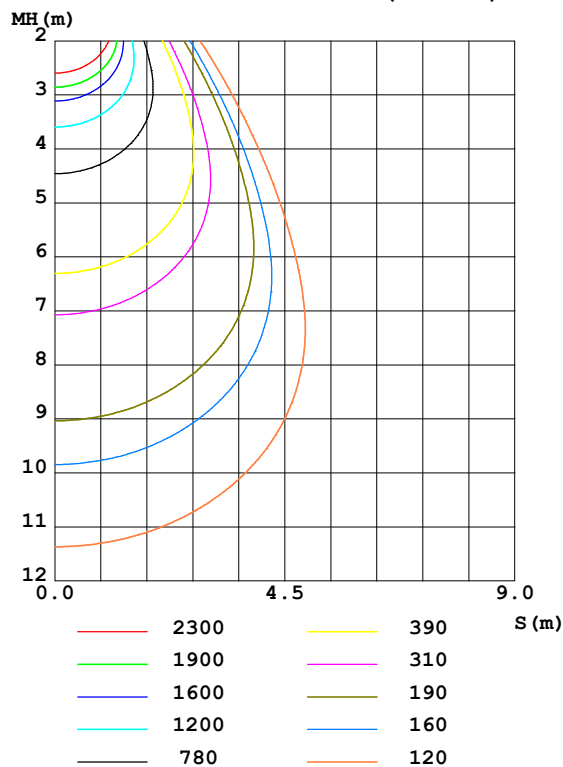
Test:U:122.0V I:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm		
NAME: H17XL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.20 lm/W			
MODEL		I _{max} (cd)	15550	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)	31635	□ UP,DN (C0-180)	0.5,48.3
NOMINAL FLUX(lm)	31634.7	CIE CLASS	DIRECT	□ UP,DN (C180-360)	0.5,50.7
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:

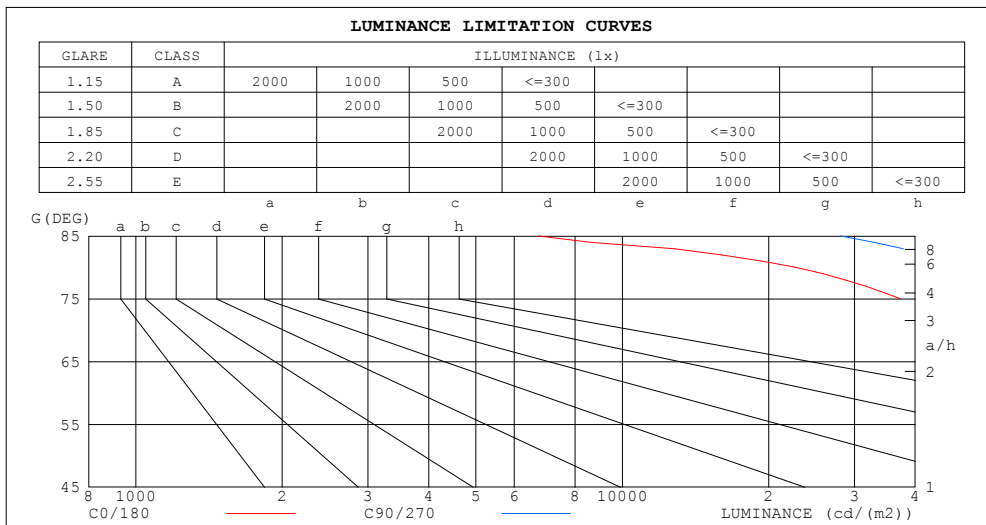
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1534	1538	1548	1553	1551	1553	1549	1539	0- 10	1479	1479	4.68,4.68
20	1464	1476	1510	1538	1540	1534	1505	1470	10- 20	4329	5809	18.4,18.4
30	1265	1303	1385	1457	1467	1447	1367	1270	20- 30	6690	12498	39.5,39.5
40	784.8	845.2	1022	1194	1219	1164	957.4	781.3	30- 40	7552	20051	63.4,63.4
50	362.0	405.2	506.5	653.0	670.4	619.3	467.8	371.9	40- 50	5663	25714	81.3,81.3
60	170.2	186.7	244.4	306.8	312.4	284.8	228.6	172.2	50- 60	3171	28885	91.3,91.3
70	72.54	78.94	110.9	138.4	143.6	125.2	99.39	73.08	60- 70	1624	30509	96.4,96.4
80	16.41	19.76	34.64	47.39	50.97	42.09	29.37	16.46	70- 80	689.9	31199	98.6,98.6
90	1.627	1.538	1.387	1.801	3.052	2.081	1.230	1.446	80- 90	132.7	31331	99,99
100	2.002	1.844	1.541	1.385	1.238	1.318	1.552	1.883	90-100	15.74	31347	99.1,99.1
110	3.238	3.067	2.621	2.229	2.144	2.244	2.657	3.117	100-110	22.08	31369	99.2,99.2
120	4.757	4.568	4.052	3.535	3.473	3.605	4.120	4.665	110-120	33.21	31402	99.3,99.3
130	6.387	6.170	5.656	5.084	5.114	5.223	5.808	6.359	120-130	43.81	31446	99.4,99.4
140	7.853	7.720	7.244	6.674	6.878	6.970	7.560	8.057	130-140	50.57	31497	99.6,99.6
150	9.231	9.120	8.682	8.169	8.478	8.589	9.100	9.547	140-150	50.85	31548	99.7,99.7
160	10.75	10.55	10.19	9.643	10.05	10.12	10.61	10.99	150-160	44.25	31592	99.9,99.9
170	12.05	11.82	11.63	11.20	11.60	11.57	11.92	12.10	160-170	31.21	31623	100,100
180	12.52	12.36	12.46	12.31	12.51	12.37	12.46	12.31	170-180	11.50	31635	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:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm		
NAME: H17XL-200W-5K	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:122.0V I:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm					
NAME: H17XL-200W-5K			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	.137	.043	.233	.133	.042	.220	.126	.040	.207	.120	.038	.196	.114	.037	
2.0	.233	.127	.039	.226	.125	.038	.215	.119	.037	.204	.114	.036	.194	.110	.035	
3.0	.221	.118	.035	.215	.115	.035	.205	.111	.034	.196	.107	.033	.187	.103	.032	
4.0	.208	.108	.032	.204	.107	.031	.195	.103	.031	.186	.100	.030	.178	.097	.030	
5.0	.196	.100	.029	.192	.099	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.185	.093	.027	.181	.092	.026	.174	.089	.026	.168	.087	.026	.161	.085	.025	
7.0	.175	.086	.024	.171	.085	.024	.165	.083	.024	.159	.082	.024	.153	.080	.023	
8.0	.165	.081	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	.146	.075	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.073	.021	.144	.072	.021	.139	.071	.020	
10.0	.149	.071	.020	.146	.071	.020	.141	.069	.020	.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	.042	.032	.018	.014	.010	
4.0	.154	.108	.072	.132	.093	.062	.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:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm										
NAME: H17XL-200W-5K					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	29.1	28.1	29.3	29.5	29.0	30.3	29.2	30.5	30.7
3H	28.1	29.2	28.4	29.5	29.7	29.4	30.6	29.7	30.8	31.1
4H	28.1	29.2	28.4	29.5	29.8	29.5	30.7	29.9	30.9	31.2
6H	28.1	29.1	28.4	29.4	29.7	29.6	30.6	29.9	30.9	31.2
8H	28.1	29.1	28.4	29.3	29.6	29.6	30.6	29.9	30.9	31.2
12H	28.0	29.0	28.4	29.3	29.6	29.6	30.5	29.9	30.8	31.1
4H 2H	27.9	29.0	28.2	29.3	29.5	29.0	30.1	29.3	30.3	30.6
3H	28.3	29.3	28.7	29.6	29.9	29.5	30.5	29.9	30.8	31.1
4H	28.4	29.3	28.8	29.6	30.0	29.7	30.6	30.1	30.9	31.3
6H	28.4	29.2	28.8	29.6	29.9	29.9	30.6	30.3	31.0	31.4
8H	28.4	29.1	28.8	29.5	29.9	29.9	30.6	30.3	31.0	31.4
12H	28.4	29.0	28.8	29.4	29.8	29.9	30.5	30.3	30.9	31.3
8H 4H	28.4	29.1	28.8	29.5	29.9	29.7	30.4	30.1	30.8	31.2
6H	28.5	29.1	28.9	29.5	29.9	29.8	30.4	30.3	30.8	31.3
8H	28.5	29.0	28.9	29.4	29.9	29.9	30.4	30.4	30.8	31.3
12H	28.4	28.9	28.9	29.3	29.8	29.9	30.3	30.4	30.8	31.3
12H 4H	28.4	29.0	28.8	29.4	29.9	29.6	30.3	30.1	30.7	31.1
6H	28.5	29.0	28.9	29.4	29.9	29.8	30.3	30.3	30.8	31.2
8H	28.4	28.9	28.9	29.3	29.8	29.9	30.3	30.3	30.8	31.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 0.9 / - 1.2				
1.5H	+ 1.3 / - 1.1					+ 1.3 / - 1.1				
2.0H	+ 2.1 / - 1.6					+ 2.4 / - 1.8				

CIE Pub.117, 31635 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:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm		
NAME: H17XL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

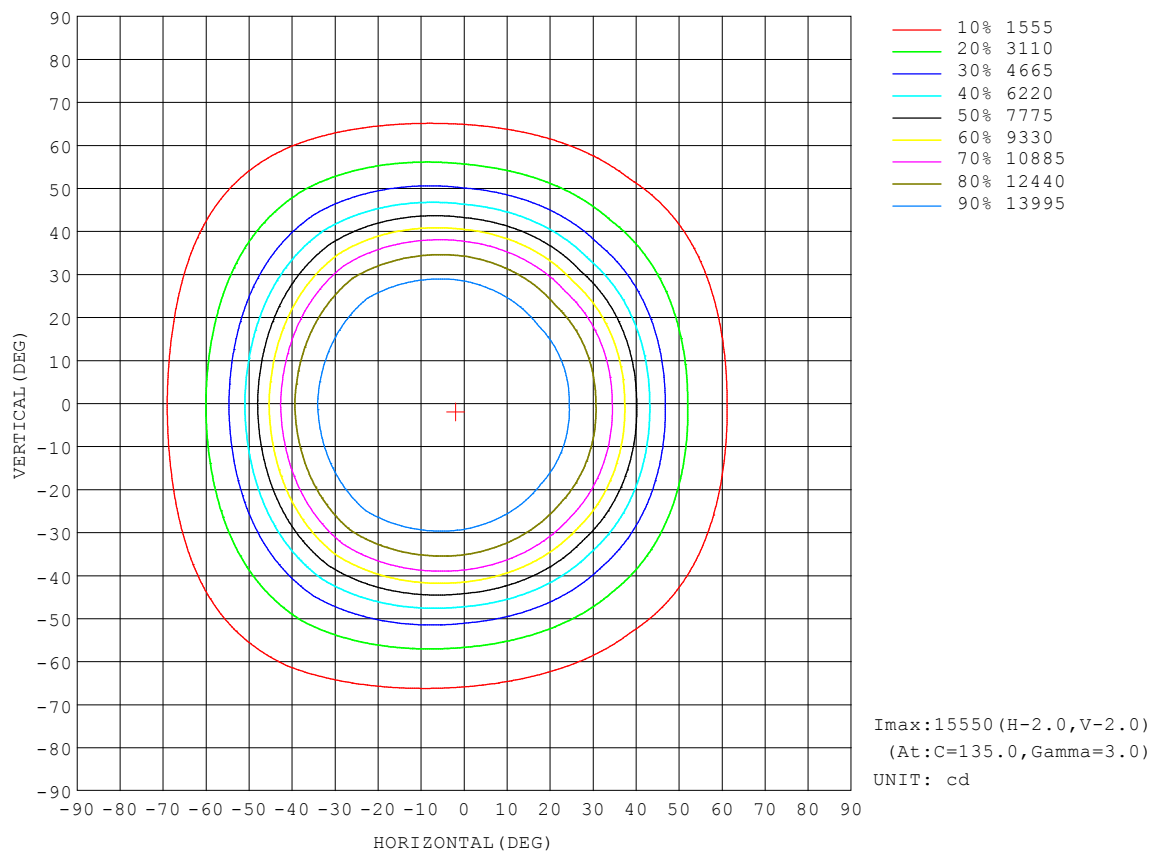
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	59	53	68	59	53	67	58	53	47
0.80	78	69	63	77	68	63	76	68	62	57
1.00	86	77	71	85	77	71	83	77	70	65
1.25	92	84	78	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	83
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:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm		
NAME: H17XL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

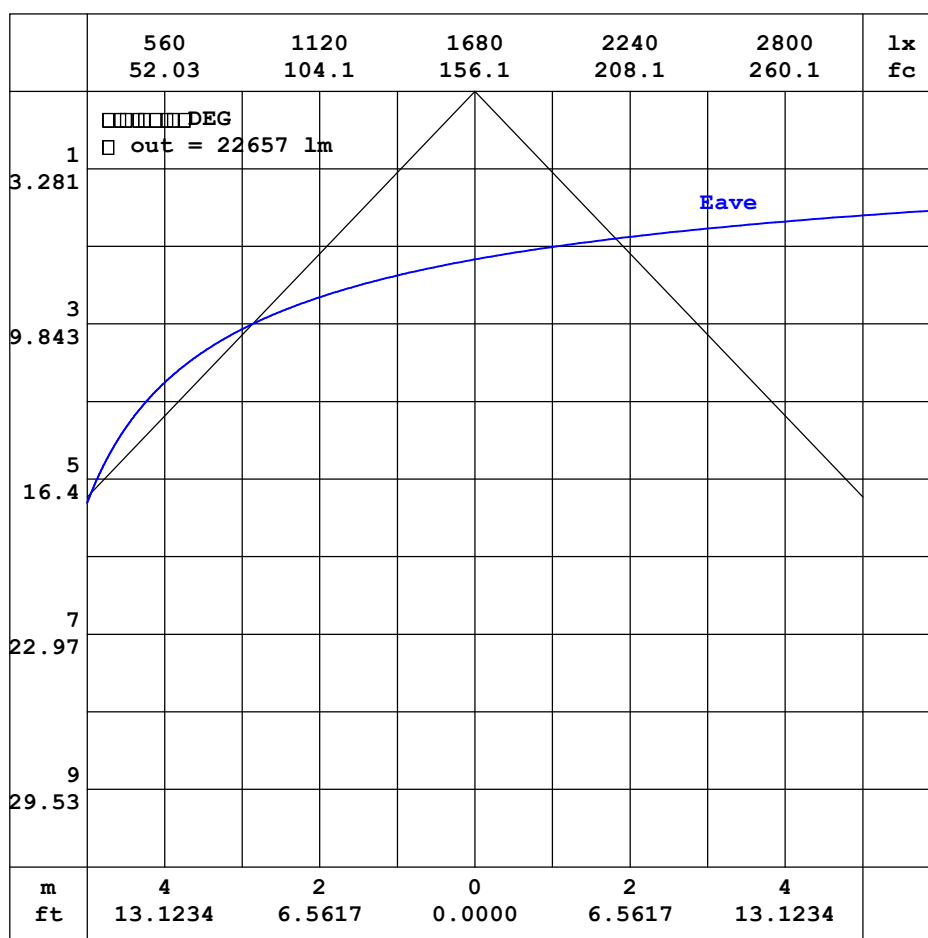


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm		
NAME: H17XL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

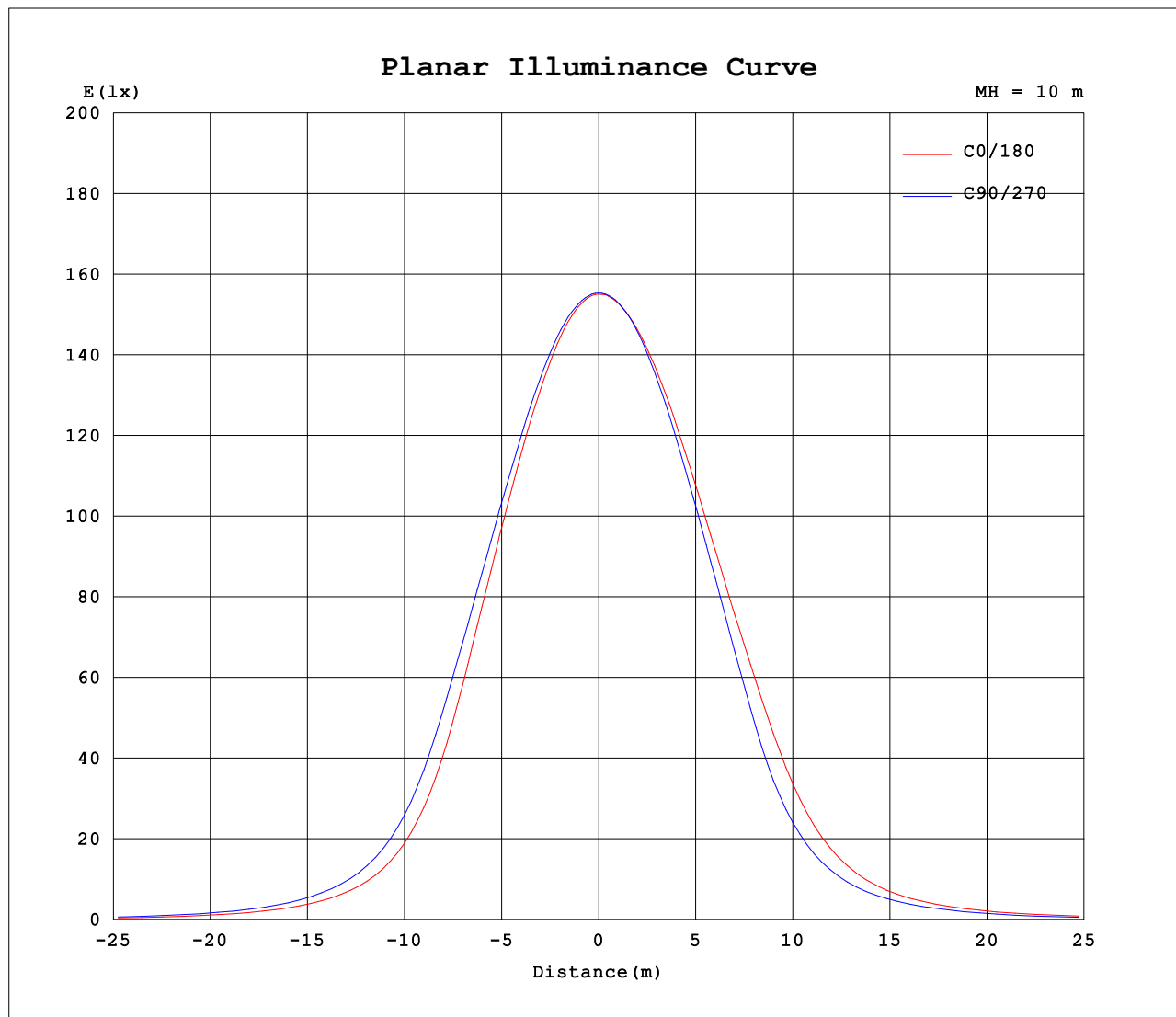


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.616A P:196.2W PF:0.9957 Freq:59.98Hz Lamp Flux:31634.7x1 lm		
NAME: H17XL-200W-5K	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	1551	1553	1554	1555	1551	1553	1554	1555										
5	1546	1549	1553	1555	1552	1554	1554	1551										
10	1534	1538	1548	1553	1551	1553	1549	1539										
15	1508	1516	1536	1550	1549	1548	1534	1514										
20	1464	1476	1510	1538	1540	1534	1505	1470										
25	1390	1412	1464	1509	1515	1503	1454	1395										
30	1265	1303	1385	1457	1467	1447	1367	1270										
35	1062	1119	1252	1363	1379	1346	1214	1064										
40	785	845	1022	1194	1219	1164	957	781										
45	538	589	736	925	954	883	683	541										
50	362	405	506	653	670	619	468	372										
55	248	277	352	447	455	422	324	255										
60	170	187	244	307	312	285	229	172										
65	114	124	167	208	215	189	153	115										
70	72.5	78.9	111	138	144	125	99.4	73.1										
75	40.1	45.2	67.6	88.2	91.2	78.8	59.6	40.7										
80	16.4	19.8	34.6	47.4	51.0	42.1	29.4	16.5										
85	2.43	3.24	10.2	15.8	21.1	14.1	7.01	2.03										
90	1.63	1.54	1.39	1.80	3.05	2.08	1.23	1.45										
95	1.52	1.46	1.27	1.39	1.23	1.34	1.20	1.43										
100	2.00	1.84	1.54	1.39	1.24	1.32	1.55	1.88										
105	2.59	2.41	2.02	1.70	1.63	1.71	2.05	2.46										
110	3.24	3.07	2.62	2.23	2.14	2.24	2.66	3.12										
115	3.96	3.79	3.30	2.84	2.76	2.88	3.34	3.85										
120	4.76	4.57	4.05	3.54	3.47	3.61	4.12	4.67										
125	5.57	5.37	4.84	4.29	4.26	4.39	4.94	5.49										
130	6.39	6.17	5.66	5.08	5.11	5.22	5.81	6.36										
135	7.15	6.96	6.47	5.88	5.99	6.08	6.69	7.20										
140	7.85	7.72	7.24	6.67	6.88	6.97	7.56	8.06										
145	8.53	8.43	7.97	7.45	7.70	7.81	8.33	8.80										
150	9.23	9.12	8.68	8.17	8.48	8.59	9.10	9.55										
155	9.98	9.83	9.41	8.89	9.24	9.34	9.85	10.3										
160	10.7	10.5	10.2	9.64	10.1	10.1	10.6	11.0										
165	11.5	11.2	11.0	10.4	10.9	10.9	11.3	11.6										
170	12.1	11.8	11.6	11.2	11.6	11.6	11.9	12.1										
175	12.5	12.2	12.2	11.9	12.2	12.1	12.3	12.4										
180	12.5	12.4	12.5	12.3	12.5	12.4	12.5	12.3										

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: