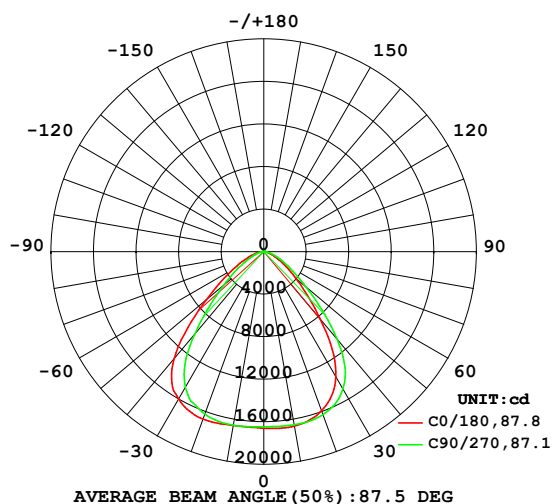


LUMINAIRE PHOTOMETRIC TEST REPORT

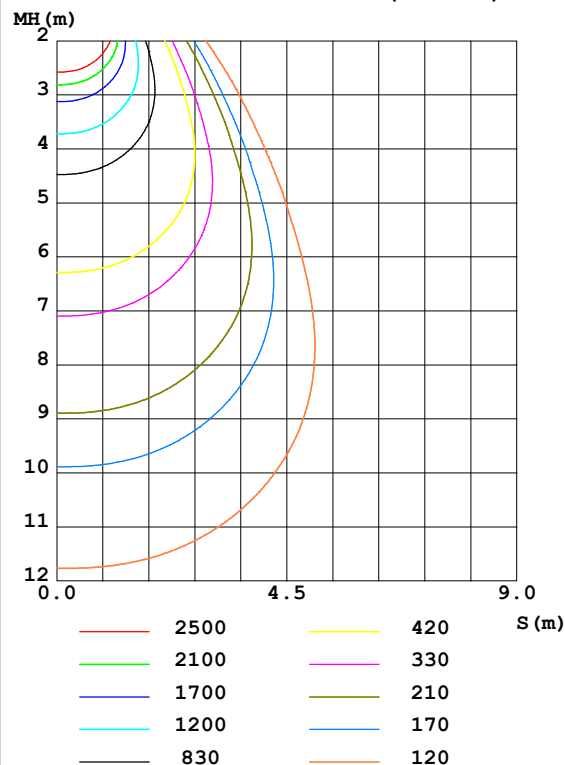
Test:U:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm					
NAME: H17XL-240W-3K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.23m		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 141.06 lm/W
MODEL		I _{max} (cd)	16754	S/MH(C0/180)	1.35	
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.23	
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	33756	□ UP,DN(C0-180)	0.5,48.4	
NOMINAL FLUX(lm)	33756	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:

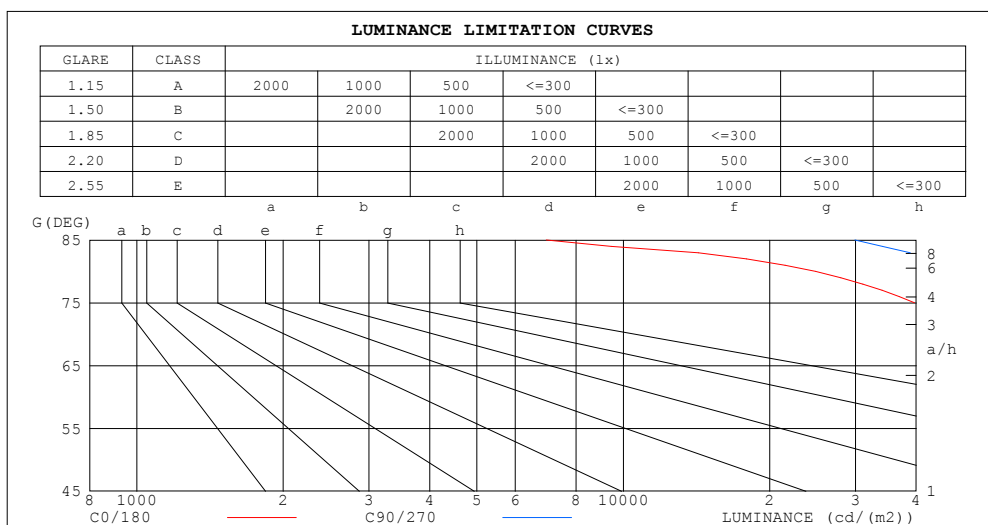
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1666	1660	1653	1641	1659	1657	1657	1648	0- 10	1578	1578	4.68,4.68
20	1591	1602	1630	1647	1675	1659	1624	1579	10- 20	4664	6242	18.5,18.5
30	1357	1414	1490	1569	1600	1564	1474	1344	20- 30	7231	13473	39.9,39.9
40	825.2	900.4	1073	1270	1313	1220	1009	813.4	30- 40	8072	21545	63.8,63.8
50	403.7	422.4	525.6	685.3	708.6	637.5	493.0	385.2	40- 50	5963	27509	81.5,81.5
60	184.4	202.1	249.0	323.6	337.6	305.1	220.9	185.8	50- 60	3334	30843	91.4,91.4
70	76.25	86.94	111.9	151.1	148.9	145.6	91.98	78.43	60- 70	1717	32560	96.5,96.5
80	17.89	22.67	35.17	53.06	51.97	46.85	27.53	17.29	70- 80	728.7	33288	98.6,98.6
90	1.704	1.615	1.402	1.895	3.362	2.050	1.291	1.523	80- 90	141.1	33430	99,99
100	2.124	1.959	1.633	1.454	1.315	1.394	1.649	1.990	90-100	16.57	33446	99.1,99.1
110	3.468	3.275	2.789	2.360	2.298	2.399	2.835	3.315	100-110	23.48	33470	99.2,99.2
120	5.126	4.911	4.331	3.767	3.747	3.871	4.422	4.985	110-120	35.54	33505	99.3,99.3
130	6.918	6.666	6.070	5.443	5.536	5.638	6.267	6.818	120-130	47.11	33552	99.4,99.4
140	8.530	8.368	7.796	7.171	7.478	7.541	8.159	8.644	130-140	54.58	33607	99.6,99.6
150	10.04	9.893	9.354	8.792	9.235	9.299	9.850	10.27	140-150	54.98	33662	99.7,99.7
160	11.70	11.45	10.98	10.39	10.97	10.97	11.49	11.83	150-160	47.90	33710	99.9,99.9
170	13.14	12.86	12.57	12.08	12.68	12.55	12.92	13.04	160-170	33.83	33744	100,100
180	13.65	13.45	13.48	13.29	13.69	13.42	13.50	13.27	170-180	12.48	33756	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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm		
NAME: H17XL-240W-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	6951	29932
80	24822	48803
75	39673	62671
70	53717	78828
65	69266	96820
60	88879	119982
55	116146	150687
50	151328	197029
45	197475	262405

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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm					
NAME: H17XL-240W-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	.240	.136	.043	.232	.133	.042	.219	.126	.040	.207	.119	.038	.195	.113	.036	
2.0	.232	.127	.039	.226	.124	.038	.214	.119	.037	.203	.114	.036	.193	.109	.034	
3.0	.220	.117	.035	.215	.115	.035	.204	.111	.034	.195	.107	.033	.186	.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	.090	.027	
6.0	.185	.093	.026	.181	.091	.026	.174	.089	.026	.167	.087	.026	.161	.085	.025	
7.0	.174	.086	.024	.171	.085	.024	.165	.083	.024	.159	.081	.024	.153	.079	.023	
8.0	.165	.081	.023	.162	.080	.023	.156	.078	.022	.151	.076	.022	.146	.075	.022	
9.0	.156	.076	.021	.153	.075	.021	.148	.073	.021	.143	.072	.021	.139	.070	.020	
10.0	.148	.071	.020	.146	.070	.020	.141	.069	.019	.137	.068	.019	.132	.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	.059	.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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm										
NAME: H17XL-240W-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	28.1	29.3	28.3	29.5	29.8	29.1	30.4	29.3	30.6	30.8
3H	28.3	29.5	28.6	29.7	30.0	29.5	30.7	29.8	30.9	31.1
4H	28.4	29.5	28.7	29.7	30.0	29.6	30.7	29.9	31.0	31.2
6H	28.4	29.4	28.7	29.7	30.0	29.7	30.7	30.0	31.0	31.2
8H	28.3	29.3	28.7	29.6	29.9	29.6	30.6	30.0	30.9	31.2
12H	28.3	29.2	28.6	29.5	29.8	29.6	30.6	30.0	30.9	31.2
4H 2H	28.2	29.3	28.5	29.6	29.8	29.1	30.2	29.4	30.5	30.7
3H	28.6	29.5	28.9	29.8	30.2	29.6	30.6	30.0	30.9	31.2
4H	28.7	29.6	29.1	29.9	30.2	29.8	30.7	30.2	31.0	31.4
6H	28.7	29.5	29.1	29.8	30.2	29.9	30.7	30.3	31.0	31.4
8H	28.7	29.4	29.1	29.8	30.2	29.9	30.7	30.4	31.0	31.4
12H	28.6	29.3	29.1	29.7	30.1	29.9	30.6	30.4	31.0	31.4
8H 4H	28.7	29.4	29.1	29.8	30.2	29.8	30.5	30.2	30.9	31.3
6H	28.8	29.3	29.2	29.8	30.2	29.9	30.5	30.4	30.9	31.4
8H	28.7	29.3	29.2	29.7	30.2	30.0	30.5	30.4	30.9	31.4
12H	28.7	29.1	29.2	29.6	30.1	30.0	30.4	30.5	30.9	31.4
12H 4H	28.7	29.3	29.1	29.7	30.1	29.7	30.4	30.2	30.8	31.2
6H	28.7	29.2	29.2	29.7	30.1	29.9	30.4	30.4	30.8	31.3
8H	28.7	29.2	29.2	29.6	30.1	29.9	30.4	30.4	30.8	31.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.5					+ 0.9 / - 1.2				
1.5H	+ 1.2 / - 0.9					+ 1.3 / - 1.1				
2.0H	+ 2.0 / - 1.6					+ 2.5 / - 1.7				

CIE Pub.117, 33756 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.2$)

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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm		
NAME: H17XL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

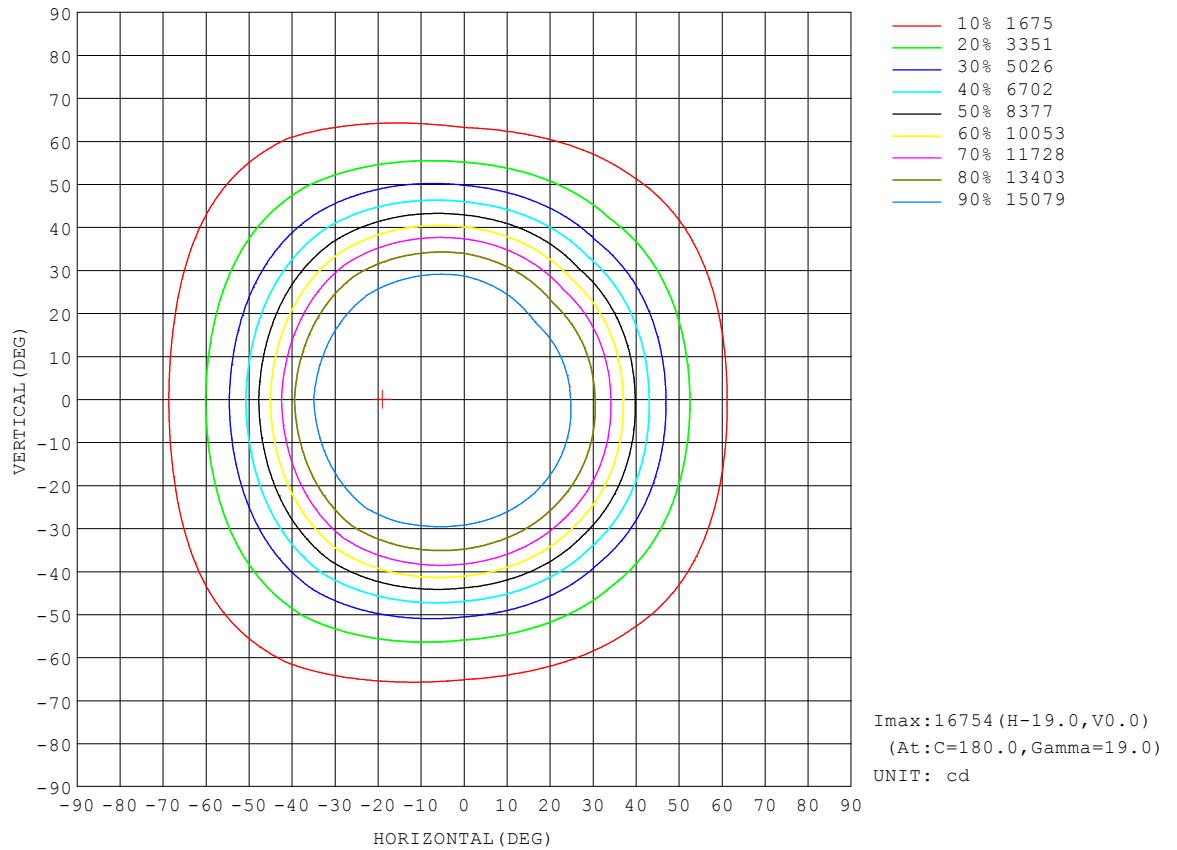
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	78	69	63	78	69	63	76	68	63	57
1.00	86	77	72	85	77	71	83	77	71	65
1.25	92	84	79	91	83	78	88	82	77	71
1.50	96	89	84	95	88	83	92	86	82	76
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	98	105	100	96	101	97	94	86
4.00	110	105	102	107	104	101	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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm		
NAME: H17XL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

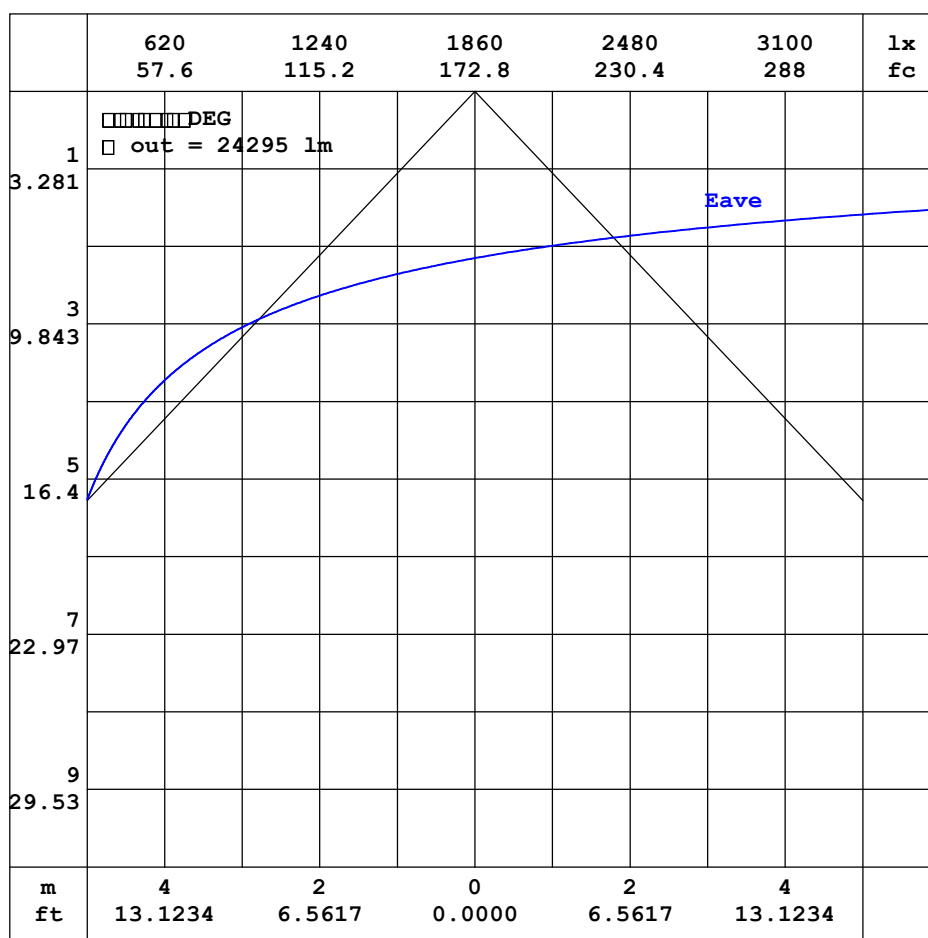


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm		
NAME: H17XL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

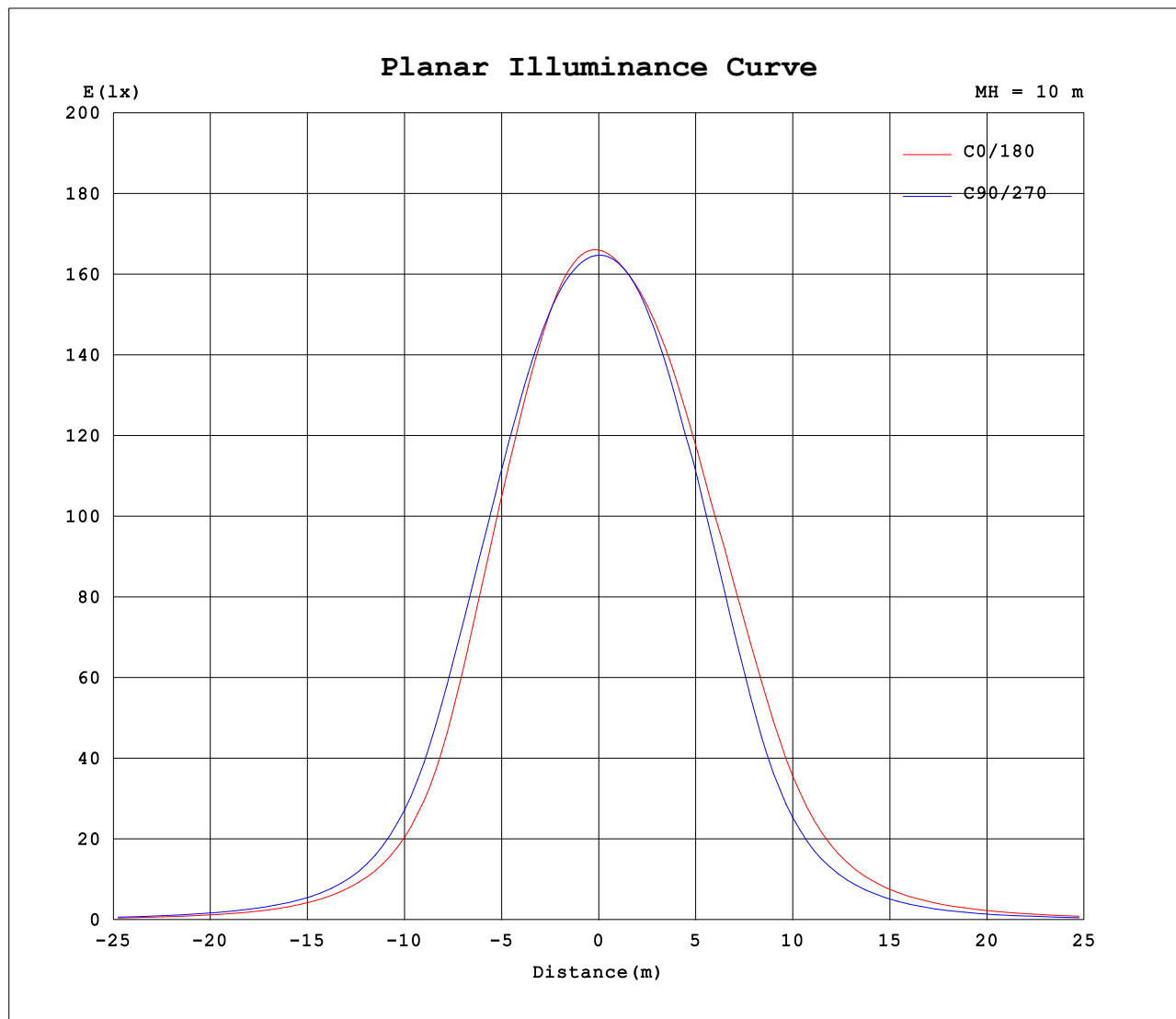


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:121.9V I:1.970A P:239.3W PF:0.9968 Freq:59.98Hz Lamp Flux:33756x1 lm								
NAME: H17XL-240W-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	1660	1653	1647	1642	1660	1653	1647	1642										
5	1668	1659	1648	1639	1655	1652	1652	1649										
10	1666	1660	1653	1641	1659	1657	1657	1648										
15	1643	1643	1651	1648	1670	1664	1651	1628										
20	1591	1602	1630	1647	1675	1659	1624	1579										
25	1503	1543	1583	1623	1655	1630	1573	1490										
30	1357	1414	1490	1569	1600	1564	1474	1344										
35	1124	1200	1333	1468	1507	1440	1293	1111										
40	825	900	1073	1270	1313	1220	1009	813										
45	579	623	770	971	1008	913	717	565										
50	404	422	526	685	709	637	493	385										
55	276	292	359	470	489	432	338	268										
60	184	202	249	324	338	305	221	186										
65	121	136	170	224	228	215	143	125										
70	76.2	86.9	112	151	149	146	92.0	78.4										
75	42.6	49.9	67.3	96.3	93.2	91.2	55.7	42.9										
80	17.9	22.7	35.2	53.1	52.0	46.9	27.5	17.3										
85	2.51	3.71	10.8	18.1	22.0	14.9	7.12	2.12										
90	1.70	1.61	1.40	1.89	3.36	2.05	1.29	1.52										
95	1.61	1.55	1.32	1.44	1.31	1.40	1.27	1.51										
100	2.12	1.96	1.63	1.45	1.31	1.39	1.65	1.99										
105	2.76	2.57	2.15	1.80	1.74	1.82	2.19	2.60										
110	3.47	3.27	2.79	2.36	2.30	2.40	2.83	3.31										
115	4.26	4.06	3.53	3.02	2.97	3.08	3.58	4.11										
120	5.13	4.91	4.33	3.77	3.75	3.87	4.42	4.99										
125	6.02	5.79	5.19	4.59	4.60	4.72	5.32	5.89										
130	6.92	6.67	6.07	5.44	5.54	5.64	6.27	6.82										
135	7.76	7.53	6.96	6.31	6.50	6.58	7.22	7.75										
140	8.53	8.37	7.80	7.17	7.48	7.54	8.16	8.64										
145	9.28	9.15	8.59	8.01	8.37	8.45	9.01	9.46										
150	10.0	9.89	9.35	8.79	9.24	9.30	9.85	10.3										
155	10.9	10.7	10.1	9.57	10.1	10.1	10.7	11.0										
160	11.7	11.5	11.0	10.4	11.0	11.0	11.5	11.8										
165	12.5	12.2	11.8	11.2	11.9	11.8	12.3	12.5										
170	13.1	12.9	12.6	12.1	12.7	12.5	12.9	13.0										
175	13.6	13.3	13.2	12.8	13.3	13.1	13.4	13.3										
180	13.6	13.5	13.5	13.3	13.7	13.4	13.5	13.3										

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: