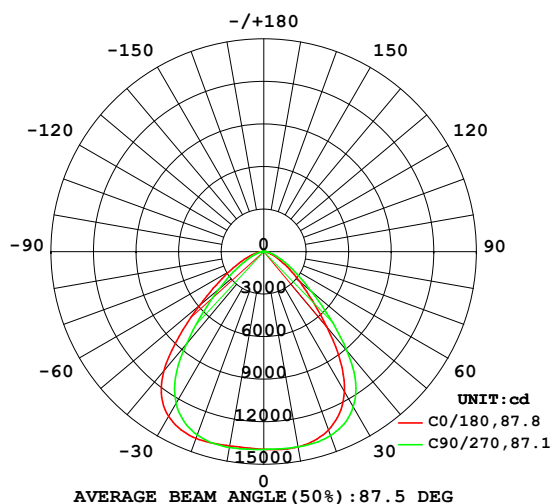


LUMINAIRE PHOTOMETRIC TEST REPORT

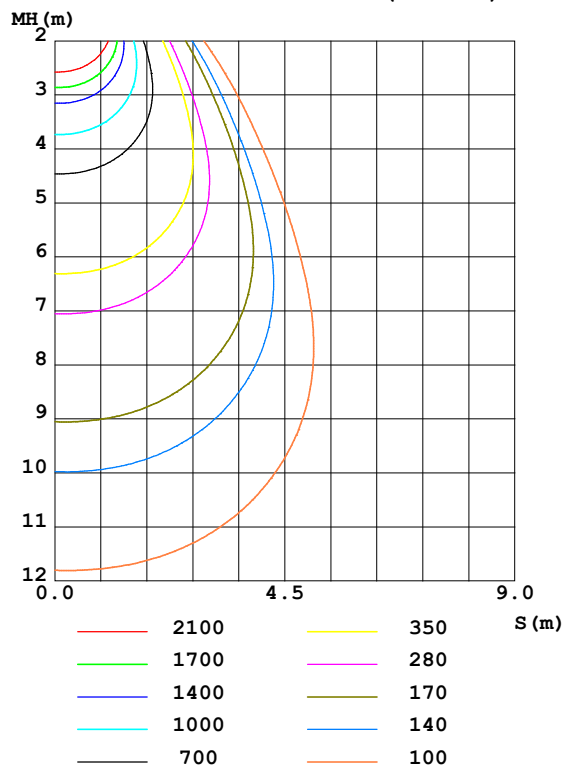
Test:U:122.0V I:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm		
NAME: H17XL-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.96 lm/W			
MODEL		I _{max} (cd)	14020	S/MH(C0/180)	1.35
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	28428	□ UP,DN(C0-180)	0.5,48.4
NOMINAL FLUX(lm)	28428.4	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:

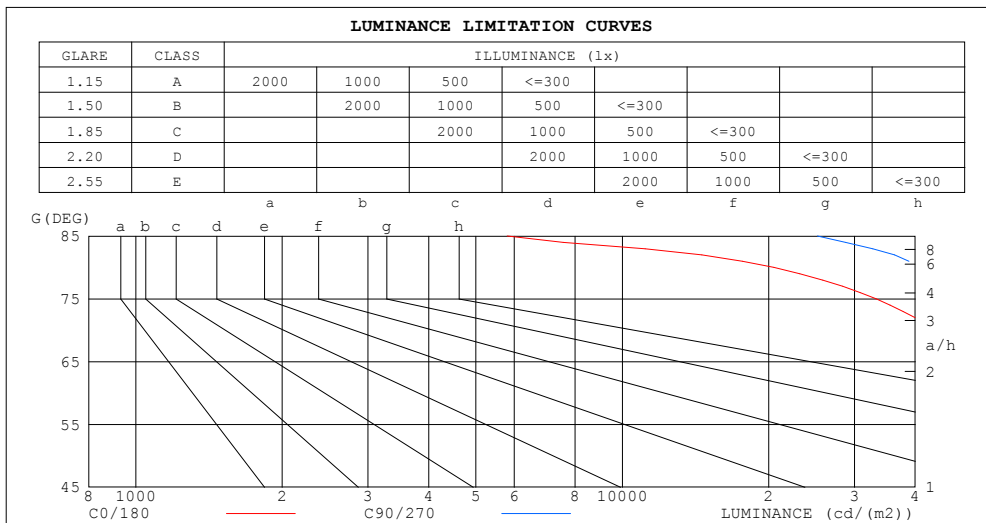
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1398	1398	1398	1393	1391	1396	1402	1400	0- 10	1333	1333	4.69,4.69
20	1337	1351	1379	1397	1401	1396	1375	1341	10- 20	3935	5268	18.5,18.5
30	1137	1179	1263	1332	1343	1320	1237	1142	20- 30	6095	11363	40,40
40	692.9	750.0	912.0	1071	1096	1034	849.1	693.1	30- 40	6794	18158	63.9,63.9
50	336.8	352.2	442.7	578.7	594.6	537.0	413.9	324.6	40- 50	5019	23177	81.5,81.5
60	153.7	169.6	209.2	272.6	283.5	256.3	186.3	156.3	50- 60	2801	25977	91.4,91.4
70	63.47	73.22	94.26	127.7	125.6	122.8	77.55	66.14	60- 70	1443	27420	96.5,96.5
80	14.77	18.98	29.81	45.01	44.22	39.70	23.23	14.58	70- 80	615.3	28036	98.6,98.6
90	1.427	1.353	1.182	1.615	2.842	1.745	1.090	1.285	80- 90	119.1	28155	99,99
100	1.782	1.642	1.375	1.226	1.097	1.172	1.388	1.683	90-100	13.96	28169	99.1,99.1
110	2.899	2.745	2.346	1.983	1.909	2.007	2.383	2.796	100-110	19.71	28189	99.2,99.2
120	4.282	4.107	3.642	3.166	3.113	3.239	3.711	4.207	110-120	29.80	28218	99.3,99.3
130	5.770	5.569	5.100	4.574	4.604	4.714	5.252	5.748	120-130	39.47	28258	99.4,99.4
140	7.105	6.986	6.545	6.026	6.220	6.309	6.845	7.291	130-140	45.70	28304	99.6,99.6
150	8.361	8.261	7.856	7.388	7.684	7.784	8.254	8.654	140-150	46.03	28350	99.7,99.7
160	9.748	9.565	9.221	8.729	9.125	9.177	9.623	9.965	150-160	40.10	28390	99.9,99.9
170	10.95	10.74	10.55	10.15	10.54	10.50	10.83	10.98	160-170	28.31	28418	100,100
180	11.38	11.23	11.31	11.17	11.38	11.23	11.31	11.17	170-180	10.45	28428	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:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm		
NAME: H17XL-200W-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	5801	25194
80	20502	41364
75	33224	53053
70	44715	66410
65	57637	81425
60	74051	100837
55	96915	126698
50	126239	165944
45	164296	223351

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:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm					
NAME: H17XL-200W-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	.185	.100	.030	.178	.097	.029	
5.0	.196	.100	.029	.191	.098	.029	.183	.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	.164	.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	.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	.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	.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:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm											
NAME: H17XL-200W-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	2H	27.4	28.7	27.7	28.9	29.1	28.5	29.7	28.7	30.0	30.2
	3H	27.7	28.8	28.0	29.1	29.3	28.9	30.0	29.2	30.3	30.5
	4H	27.7	28.8	28.0	29.1	29.4	29.0	30.1	29.3	30.4	30.6
	6H	27.7	28.7	28.0	29.0	29.3	29.1	30.1	29.4	30.4	30.6
	8H	27.7	28.7	28.0	29.0	29.2	29.0	30.0	29.4	30.3	30.6
	12H	27.6	28.6	28.0	28.9	29.2	29.0	30.0	29.4	30.3	30.6
4H	2H	27.5	28.6	27.8	28.9	29.2	28.5	29.6	28.8	29.8	30.1
	3H	27.9	28.9	28.3	29.2	29.5	29.0	30.0	29.4	30.3	30.6
	4H	28.0	28.9	28.4	29.2	29.6	29.2	30.1	29.6	30.4	30.7
	6H	28.1	28.8	28.5	29.2	29.6	29.3	30.1	29.7	30.4	30.8
	8H	28.0	28.7	28.5	29.1	29.5	29.3	30.0	29.8	30.4	30.8
	12H	28.0	28.6	28.4	29.0	29.5	29.3	30.0	29.8	30.4	30.8
8H	4H	28.1	28.8	28.5	29.1	29.5	29.2	29.9	29.6	30.3	30.6
	6H	28.1	28.7	28.6	29.1	29.5	29.3	29.9	29.8	30.3	30.8
	8H	28.1	28.6	28.6	29.0	29.5	29.4	29.9	29.8	30.3	30.8
	12H	28.1	28.5	28.5	29.0	29.4	29.4	29.8	29.9	30.3	30.8
12H	4H	28.0	28.7	28.5	29.1	29.5	29.1	29.8	29.6	30.2	30.6
	6H	28.1	28.6	28.6	29.0	29.5	29.3	29.8	29.8	30.2	30.7
	8H	28.1	28.5	28.6	29.0	29.5	29.3	29.8	29.8	30.2	30.7
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.5					+ 0.9 / - 1.2					
1.5H	+ 1.2 / - 0.9					+ 1.4 / - 1.1					
2.0H	+ 2.0 / - 1.6					+ 2.5 / - 1.7					

CIE Pub.117, 28428 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.6$)

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:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm		
NAME: H17XL-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

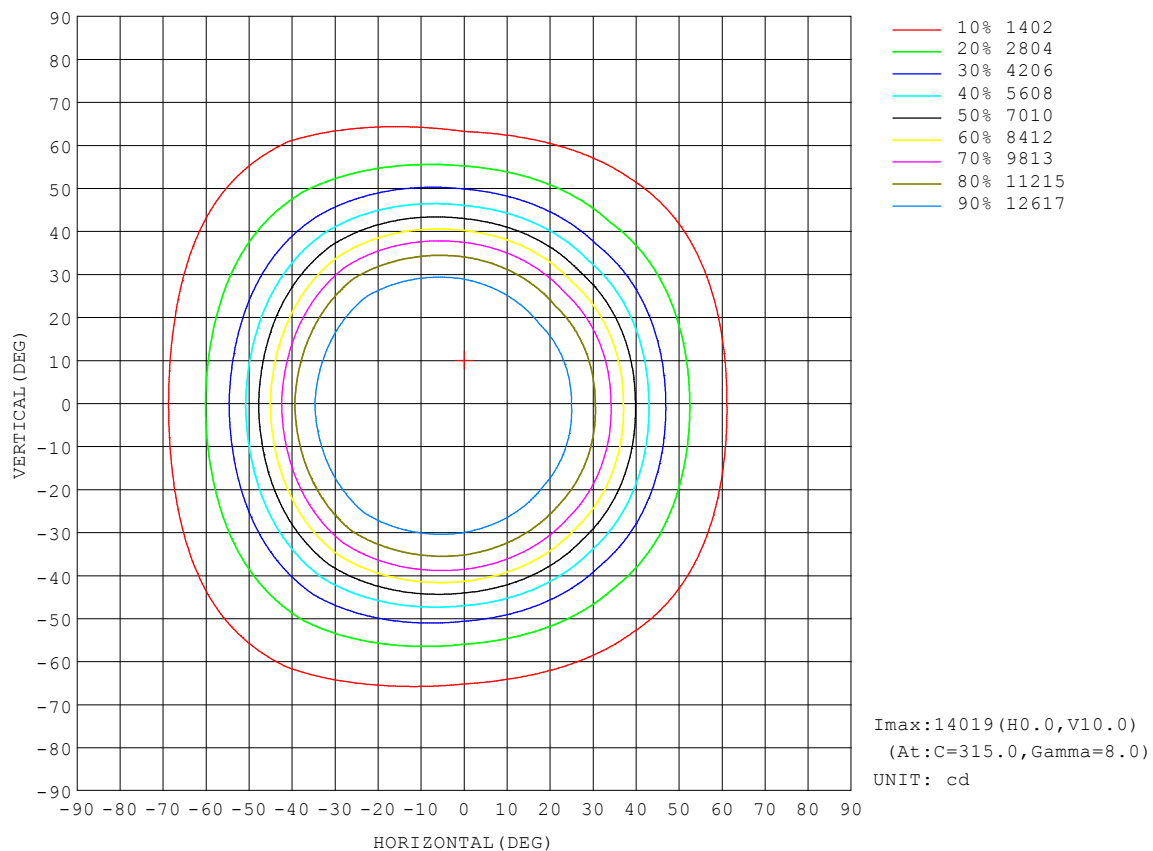
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	78	69	63	78	69	63	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:122.0V I:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm		
NAME: H17XL-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

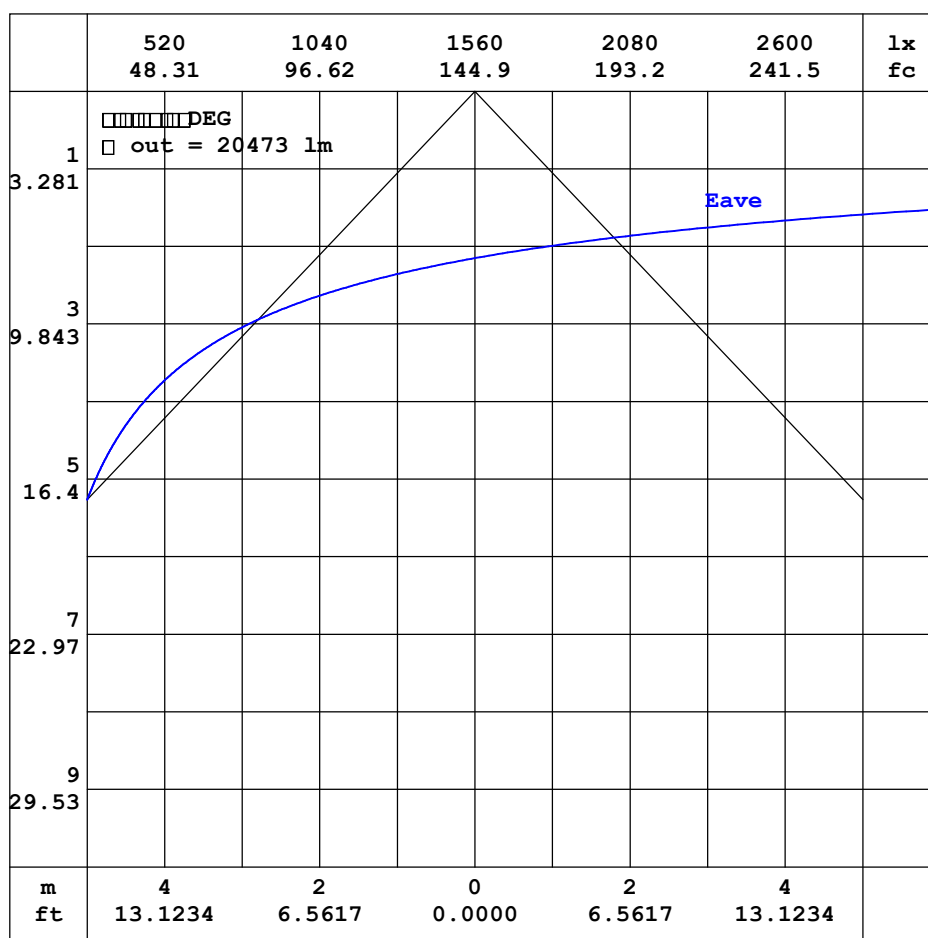


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-30

☐ 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:122.0V I:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm		
NAME: H17XL-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

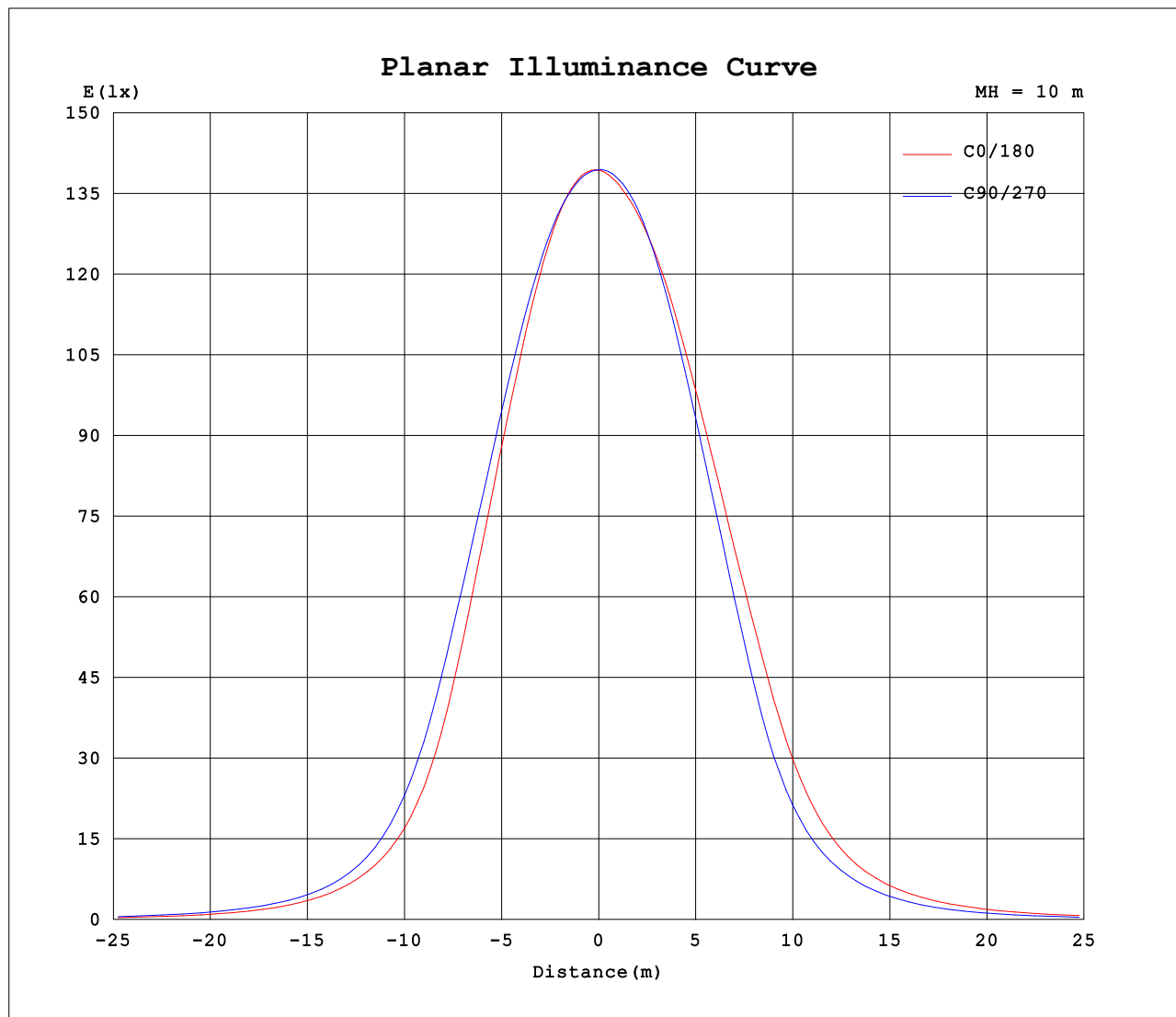


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:122.0V I:1.603A P:194.8W PF:0.9956 Freq:59.98Hz Lamp Flux:28428.4x1 lm								
NAME: H17XL-200W-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	1393	1394	1394	1395	1393	1394	1394	1395										
5	1399	1398	1396	1391	1389	1393	1398	1401										
10	1398	1398	1398	1393	1391	1396	1402	1400										
15	1379	1385	1396	1399	1398	1401	1397	1383										
20	1337	1351	1379	1397	1401	1396	1375	1341										
25	1261	1287	1340	1378	1385	1373	1325	1266										
30	1137	1179	1263	1332	1343	1320	1237	1142										
35	943	999	1131	1237	1255	1216	1086	945										
40	693	750	912	1071	1096	1034	849	693										
45	482	519	655	821	845	776	603	476										
50	337	352	443	579	595	537	414	325										
55	231	245	302	396	409	363	284	226										
60	154	170	209	273	283	256	186	156										
65	101	114	143	189	192	181	120	105										
70	63.5	73.2	94.3	128	126	123	77.6	66.1										
75	35.7	42.0	57.0	81.6	78.9	77.0	46.8	36.4										
80	14.8	19.0	29.8	45.0	44.2	39.7	23.2	14.6										
85	2.10	2.98	9.11	15.4	18.8	12.5	5.97	1.78										
90	1.43	1.35	1.18	1.62	2.84	1.75	1.09	1.29										
95	1.35	1.30	1.12	1.22	1.10	1.18	1.07	1.28										
100	1.78	1.64	1.38	1.23	1.10	1.17	1.39	1.68										
105	2.31	2.15	1.81	1.52	1.45	1.53	1.84	2.20										
110	2.90	2.75	2.35	1.98	1.91	2.01	2.38	2.80										
115	3.56	3.40	2.96	2.54	2.47	2.58	3.01	3.47										
120	4.28	4.11	3.64	3.17	3.11	3.24	3.71	4.21										
125	5.02	4.84	4.36	3.85	3.83	3.95	4.46	4.95										
130	5.77	5.57	5.10	4.57	4.60	4.71	5.25	5.75										
135	6.47	6.29	5.84	5.30	5.41	5.50	6.05	6.52										
140	7.11	6.99	6.55	6.03	6.22	6.31	6.84	7.29										
145	7.73	7.64	7.21	6.73	6.97	7.07	7.55	7.97										
150	8.36	8.26	7.86	7.39	7.68	7.78	8.25	8.65										
155	9.05	8.91	8.52	8.04	8.38	8.47	8.94	9.31										
160	9.75	9.56	9.22	8.73	9.13	9.18	9.62	9.96										
165	10.4	10.2	9.92	9.45	9.87	9.88	10.3	10.6										
170	10.9	10.7	10.5	10.2	10.5	10.5	10.8	11.0										
175	11.3	11.1	11.0	10.8	11.1	11.0	11.2	11.2										
180	11.4	11.2	11.3	11.2	11.4	11.2	11.3	11.2										

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: