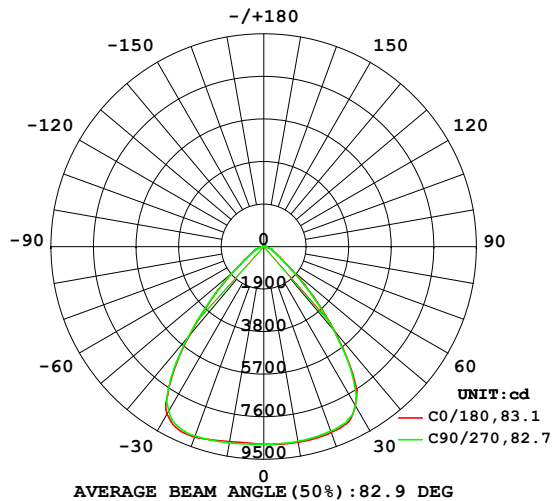


LUMINAIRE PHOTOMETRIC TEST REPORT

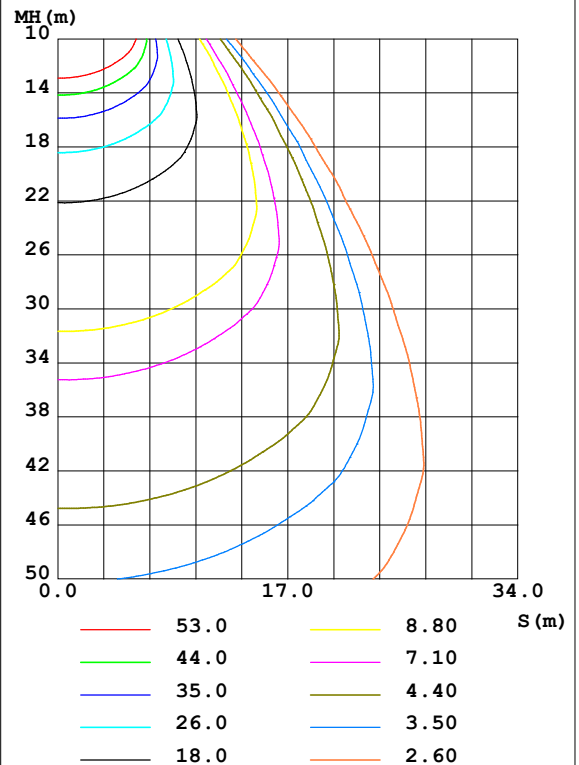
Test:U:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm		
NAME: H17-RPC-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.54 lm/W			
MODEL		I _{max} (cd)	9074	S/MH(C0/180)	1.21
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	16280	□ UP,DN(C0-180)	1.0,48.1
NOMINAL FLUX(lm)	16279.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.9,50.0
LAMPS INSIDE	1	□ up(%)	1.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	98.1	CIBSE SHR MAX	1.25

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:2022-09-01

□ 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	8870	8833	8827	8837	8839	8847	8895	8906	0- 10	843.9	843.9	5.18,5.18
20	8824	8773	8764	8886	9046	9057	8995	8912	10- 20	2520	3364	20.7,20.7
30	8196	8074	8192	8383	8629	8703	8474	8395	20- 30	4050	7414	45.5,45.5
40	4949	4731	4849	5220	5178	5490	5286	4918	30- 40	4330	11743	72.1,72.1
50	1722	1517	1601	1898	1876	1974	1896	1725	40- 50	2493	14236	87.4,87.4
60	661.3	582.4	615.3	702.4	720.7	728.1	673.6	664.7	50- 60	954.6	15191	93.3,93.3
70	348.9	320.3	368.3	395.2	408.7	392.5	358.7	350.9	60- 70	476.3	15667	96.2,96.2
80	101.5	92.45	97.30	101.3	100.8	109.8	102.6	96.79	70- 80	226.6	15894	97.6,97.6
90	42.95	43.27	45.66	42.82	41.77	43.99	43.64	38.14	80- 90	74.73	15968	98.1,98.1
100	30.73	32.21	33.15	31.56	30.78	29.54	28.69	28.76	90-100	37.11	16006	98.3,98.3
110	37.86	40.43	39.31	38.52	39.39	37.23	34.95	35.54	100-110	35.83	16041	98.5,98.5
120	49.14	48.19	46.68	44.38	42.90	47.26	48.64	50.55	110-120	43.30	16085	98.8,98.8
130	55.44	54.76	54.72	54.52	56.41	55.58	55.74	57.03	120-130	44.65	16129	99.1,99.1
140	64.23	62.65	63.43	62.38	65.08	63.33	64.38	61.28	130-140	46.40	16176	99.4,99.4
150	66.65	68.85	67.82	67.68	67.37	68.27	67.40	67.33	140-150	41.24	16217	99.6,99.6
160	73.91	73.98	75.92	73.50	75.13	74.03	74.70	74.25	150-160	32.57	16250	99.8,99.8
170	81.95	80.48	83.47	81.68	82.93	80.59	82.52	80.99	160-170	22.13	16272	100,100
180	87.53	84.34	87.42	85.26	87.53	84.38	87.43	85.15	170-180	7.960	16280	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 13253 lm

%lum = 81.4%

%lamp = 81.4%

Conical surface Flux(120deg): 15191 lm

%lum = 93.3%

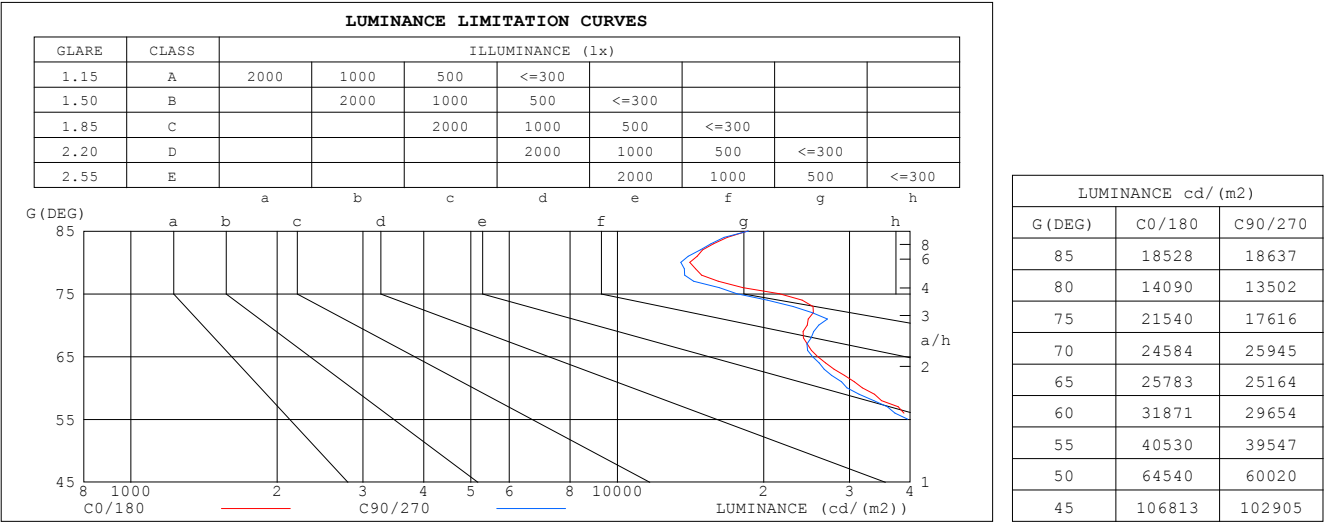
%lamp = 93.3%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

□ 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:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm		
NAME: H17-RPC-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm		
NAME: H17-RPC-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	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	.223 .127 .040	.216 .123 .039	.202 .116 .037	.189 .109 .035	.177 .103 .033	
2.0	.215 .118 .036	.209 .115 .035	.197 .109 .034	.186 .104 .033	.175 .099 .031	
3.0	.204 .109 .033	.199 .106 .032	.188 .102 .031	.179 .098 .030	.170 .094 .029	
4.0	.194 .101 .030	.189 .099 .029	.180 .095 .028	.171 .092 .028	.163 .089 .027	
5.0	.183 .093 .027	.179 .092 .027	.171 .089 .026	.163 .086 .026	.156 .083 .025	
6.0	.174 .087 .025	.170 .086 .025	.163 .083 .024	.156 .081 .024	.149 .079 .023	
7.0	.165 .082 .023	.161 .080 .023	.155 .078 .023	.149 .076 .022	.143 .074 .022	
8.0	.157 .077 .022	.153 .076 .021	.148 .074 .021	.142 .072 .021	.137 .070 .020	
9.0	.149 .072 .020	.146 .071 .020	.141 .070 .020	.136 .068 .019	.131 .066 .019	
10.0	.142 .068 .019	.139 .067 .019	.134 .066 .019	.130 .064 .018	.125 .063 .018	

<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	.205 .205 .205	.175 .175 .175	.120 .120 .120	.069 .069 .069	.022 .022 .022	
1.0	.189 .172 .156	.162 .147 .134	.111 .101 .093	.064 .059 .054	.020 .019 .017	
2.0	.177 .147 .122	.151 .127 .106	.104 .088 .074	.060 .051 .043	.019 .016 .014	
3.0	.167 .129 .098	.143 .111 .085	.098 .077 .060	.057 .045 .035	.018 .015 .012	
4.0	.158 .115 .082	.136 .099 .071	.093 .069 .050	.054 .040 .029	.017 .013 .010	
5.0	.151 .104 .069	.129 .090 .060	.089 .063 .042	.052 .037 .025	.017 .012 .008	
6.0	.144 .095 .060	.124 .082 .052	.085 .058 .037	.049 .034 .022	.016 .011 .007	
7.0	.138 .088 .053	.118 .076 .046	.082 .053 .033	.048 .031 .019	.015 .010 .006	
8.0	.132 .082 .047	.114 .071 .041	.079 .050 .029	.046 .029 .018	.015 .010 .006	
9.0	.127 .077 .043	.109 .067 .038	.076 .047 .027	.044 .028 .016	.014 .009 .005	
10.0	.122 .073 .040	.105 .063 .035	.073 .044 .025	.043 .026 .015	.014 .009 .005	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm											
NAME: H17-RPC-100W-5K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: RAB LIGHTING INC						SUR.:0.23		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	25.2	26.4	25.5	26.6	26.8	25.1	26.3	25.4	26.5	26.7	
	3H	25.4	26.5	25.7	26.7	27.0	25.3	26.4	25.6	26.6	26.9
	4H	25.5	26.5	25.8	26.8	27.0	25.3	26.4	25.7	26.6	26.9
	6H	25.5	26.4	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
	8H	25.4	26.4	25.8	26.7	27.0	25.3	26.2	25.7	26.5	26.8
	12H	25.4	26.3	25.8	26.6	27.0	25.3	26.2	25.7	26.5	26.8
4H	2H	25.1	26.1	25.4	26.4	26.7	25.0	26.0	25.3	26.3	26.5
	3H	25.4	26.3	25.8	26.6	26.9	25.3	26.2	25.7	26.5	26.8
	4H	25.6	26.4	25.9	26.7	27.1	25.4	26.2	25.8	26.6	26.9
	6H	25.6	26.3	26.0	26.7	27.1	25.4	26.1	25.9	26.5	26.9
	8H	25.6	26.2	26.0	26.6	27.1	25.5	26.1	25.9	26.5	26.9
	12H	25.6	26.2	26.1	26.6	27.1	25.5	26.1	25.9	26.5	26.9
8H	4H	25.5	26.2	25.9	26.6	27.0	25.4	26.0	25.8	26.4	26.8
	6H	25.6	26.1	26.0	26.5	27.0	25.4	26.0	25.9	26.4	26.9
	8H	25.6	26.1	26.1	26.5	27.0	25.5	26.0	26.0	26.4	26.9
	12H	25.7	26.1	26.2	26.6	27.1	25.6	26.0	26.1	26.4	27.0
12H	4H	25.5	26.1	25.9	26.5	26.9	25.3	25.9	25.8	26.3	26.8
	6H	25.6	26.0	26.0	26.5	27.0	25.4	25.9	25.9	26.3	26.8
	8H	25.6	26.0	26.1	26.5	27.0	25.5	25.9	26.0	26.4	26.9
Variations with the observer position at spacings:											
S = 1.0H	+ 1.5 / - 2.6					+ 1.6 / - 2.7					
1.5H	+ 2.5 / - 2.5					+ 2.5 / - 2.4					
2.0H	+ 3.7 / - 2.3					+ 3.7 / - 2.2					

CIE Pub.117, 16280 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.7$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

☐ 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:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm		
NAME: H17-RPC-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

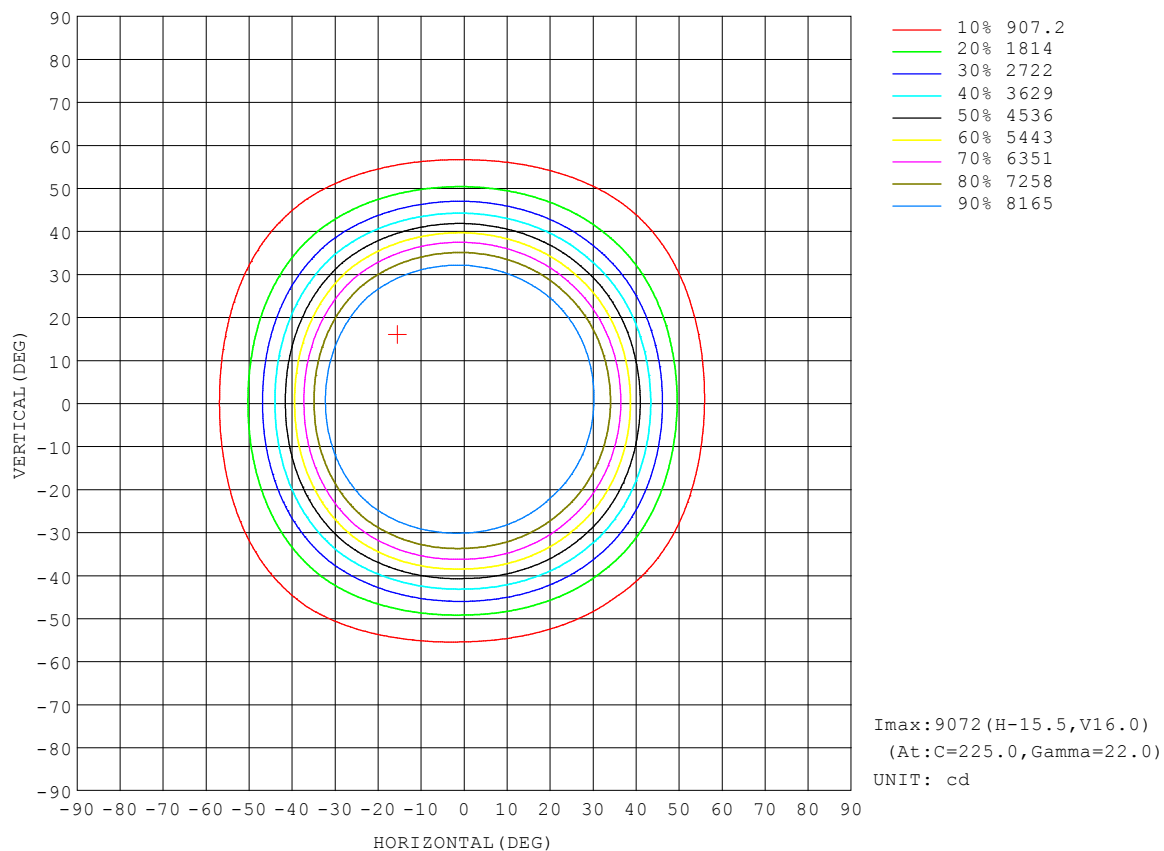
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	70	82	74	69	81	74	69	64
1.00	90	82	77	89	81	77	87	82	76	71
1.25	95	88	83	94	87	83	92	86	82	76
1.50	99	92	88	97	91	87	95	90	86	80
2.00	103	98	93	102	96	92	98	94	91	84
2.50	106	101	96	104	99	95	100	96	93	86
3.00	108	103	100	106	102	98	102	99	96	88
4.00	111	107	104	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	105	103	101	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: 2022-09-01

☐ 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:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm		
NAME: H17-RPC-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

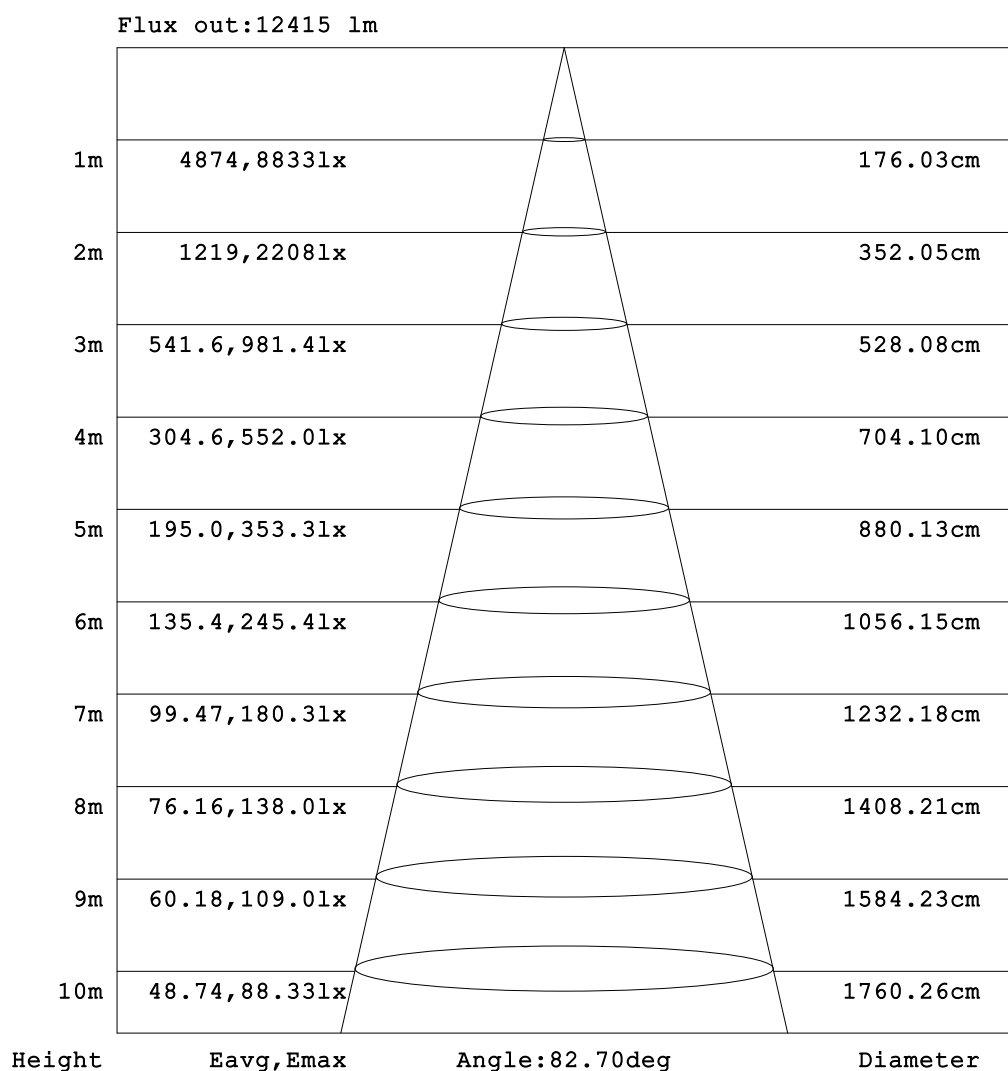


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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 Figure

Test:U:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm		
NAME: H17-RPC-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

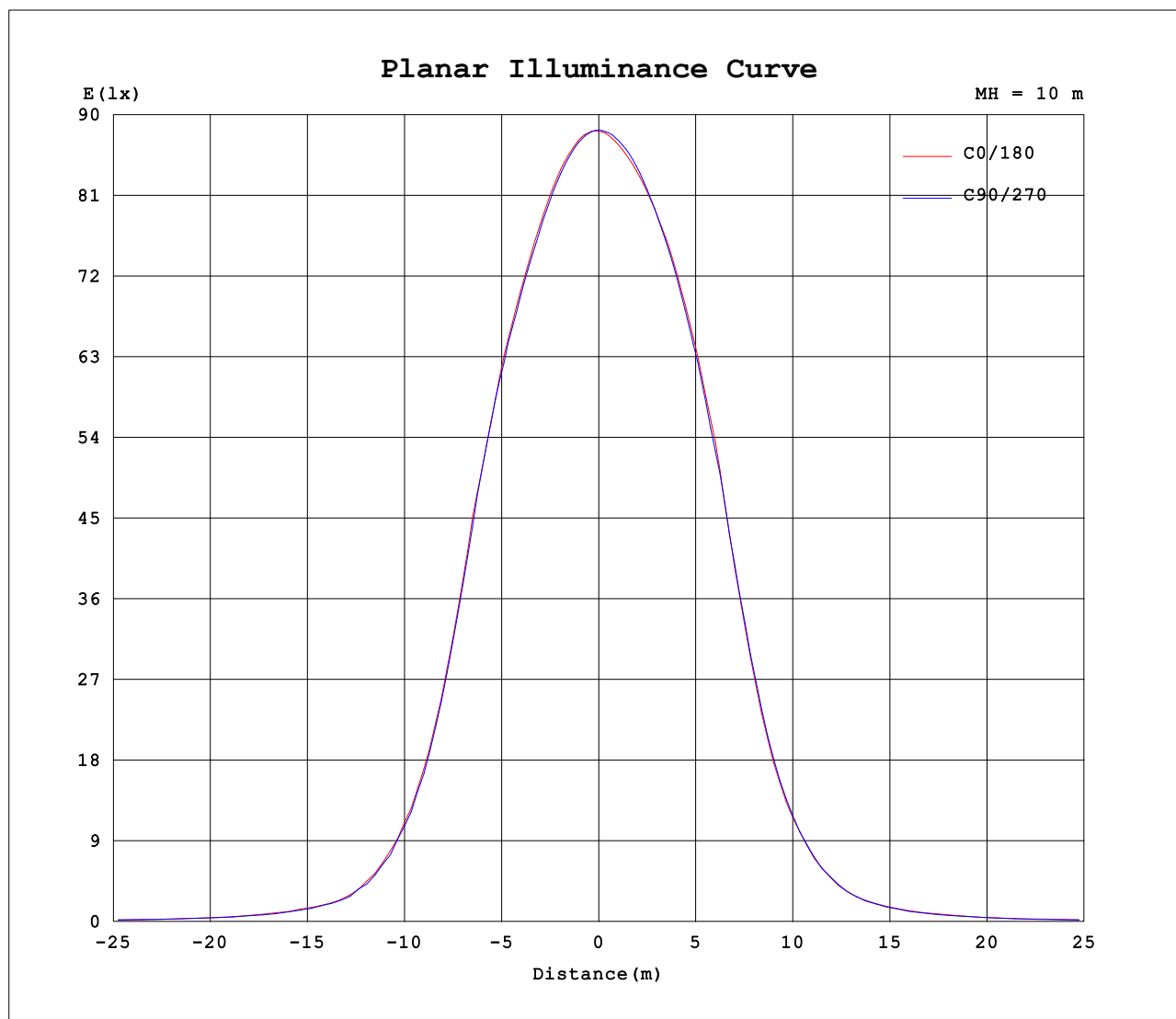


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Marvin Ma
 Test Date: 2022-09-01

☐ 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: 2022-09-01

☐ 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:120.6V I:0.8432A P:101.4W PF:0.9975 Freq:59.98Hz Lamp Flux:16279.7x1 lm								
NAME: H17-RPC-100W-5K					TYPE:			WEIGHT:
SPEC.:					DIM.:			SERIAL No.:
MFR.: RAB LIGHTING INC					SUR.:0.23			Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8819	8823	8828	8833	8819	8823	8828	8833										
5	8852	8843	8831	8814	8800	8811	8843	8871										
10	8870	8833	8827	8837	8839	8847	8895	8906										
15	8871	8804	8813	8871	8934	8954	8951	8915										
20	8824	8773	8764	8886	9046	9057	8995	8912										
25	8729	8667	8671	8799	9009	9025	8915	8828										
30	8196	8074	8192	8383	8629	8703	8474	8395										
35	6926	6694	6831	7204	7209	7496	7279	7016										
40	4949	4731	4849	5220	5178	5490	5286	4918										
45	3134	2945	3020	3298	3283	3490	3350	3045										
50	1722	1517	1601	1898	1876	1974	1896	1725										
55	965	891	941	1055	1067	1100	1051	1013										
60	661	582	615	702	721	728	674	665										
65	452	404	441	497	478	505	452	452										
70	349	320	368	395	409	392	359	351										
75	231	185	189	194	178	196	200	195										
80	102	92.4	97.3	101	101	110	103	96.8										
85	67.0	63.7	67.4	68.6	65.9	73.0	70.2	64.3										
90	42.9	43.3	45.7	42.8	41.8	44.0	43.6	38.1										
95	33.1	33.8	34.2	33.0	31.8	32.7	31.8	29.4										
100	30.7	32.2	33.1	31.6	30.8	29.5	28.7	28.8										
105	33.8	35.9	36.7	35.0	34.6	31.9	30.9	30.9										
110	37.9	40.4	39.3	38.5	39.4	37.2	34.9	35.5										
115	44.1	45.9	46.4	44.0	44.1	45.2	41.7	41.8										
120	49.1	48.2	46.7	44.4	42.9	47.3	48.6	50.5										
125	48.7	48.3	47.0	46.9	47.6	48.0	49.7	54.9										
130	55.4	54.8	54.7	54.5	56.4	55.6	55.7	57.0										
135	60.4	59.3	60.4	59.9	62.4	60.5	60.9	59.2										
140	64.2	62.6	63.4	62.4	65.1	63.3	64.4	61.3										
145	66.7	66.5	66.5	65.5	66.7	65.5	67.0	64.4										
150	66.6	68.9	67.8	67.7	67.4	68.3	67.4	67.3										
155	69.5	70.1	71.3	69.4	70.6	70.1	70.3	69.8										
160	73.9	74.0	75.9	73.5	75.1	74.0	74.7	74.3										
165	78.4	77.6	80.1	77.8	79.7	77.8	79.2	78.4										
170	82.0	80.5	83.5	81.7	82.9	80.6	82.5	81.0										
175	84.8	83.5	85.8	84.3	85.1	81.9	84.3	82.7										
180	87.5	84.3	87.4	85.3	87.5	84.4	87.4	85.1										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

□ 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: