

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or  
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: Test Report: LVE01935 LAB: "EHV"

Luminaire Tested: **711-MH70PAR30-FL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: Test Report: LVE01935 LAB: "EHV"  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 711-MH70PAR30-FL  
Description:  
Light Source: CDM-R 70W FL PAR30L /830  
Bare Lamp data for 711  
Ballast/Driver: -

**Summary**

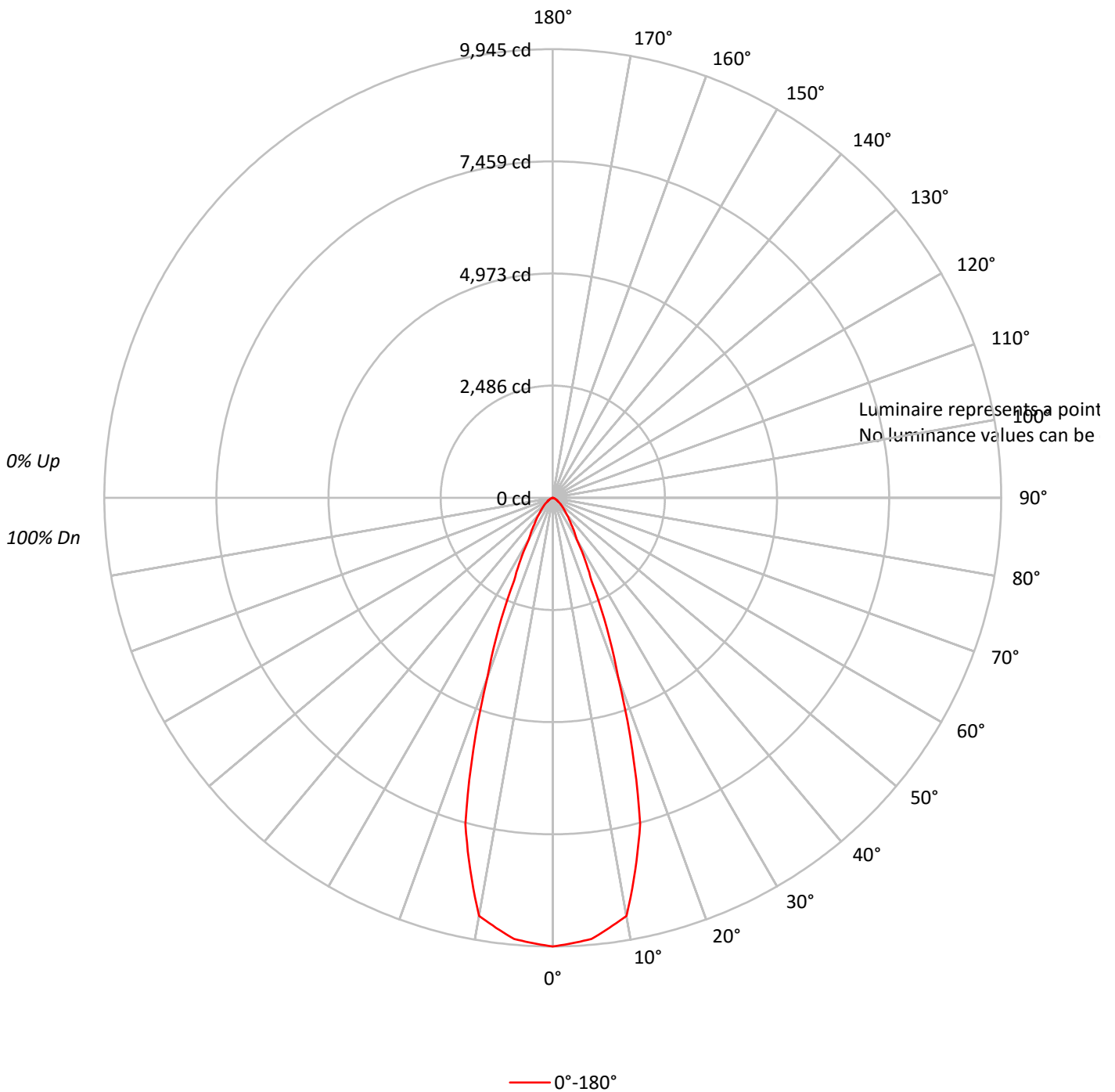
Lumens per Lamp: 4850 (1 lamp)  
Luminaire Lumens: 4904.8 lumens  
Efficiency: 101.1%  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.58  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	120	120	120	120	118	118	118	118	112	112	112		108	108	108		103	103	103	101
1	115	112	110	108	113	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	105	101	98	108	104	100	97	100	97	95		97	95	93		95	93	91	89
3	105	99	94	91	103	98	93	90	95	91	88		93	90	87		90	88	86	84
4	100	93	88	84	99	92	88	84	90	86	83		88	85	82		86	83	81	80
5	96	88	83	79	95	88	83	79	86	81	78		84	80	77		83	79	77	75
6	92	84	79	75	91	83	78	74	82	77	74		80	76	73		79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70		77	73	70		76	72	70	68
8	85	76	71	67	84	76	71	67	75	70	67		74	70	67		73	69	66	65
9	82	73	68	64	81	73	68	64	72	67	64		71	67	64		70	66	64	62
10	79	70	65	61	78	70	65	61	69	64	61		68	64	61		68	64	61	60

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	924.1	18.8	19.1
10°-20°	1969.0	40.1	40.6
20°-30°	1049.3	21.4	21.6
30°-40°	458.2	9.3	9.4
40°-50°	263.9	5.4	5.4
50°-60°	142.5	2.9	2.9
60°-70°	65.7	1.3	1.4
70°-80°	24.3	0.5	0.5
80°-90°	7.9	0.2	0.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	3942.4	80.4	81.3
0°-40°	4400.6	89.7	90.7
0°-60°	4807.0	98.0	99.1
0°-90°	4904.8	100.0	101.1
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	4904.8	100.0	101.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9945	
5°	9818	924
15°	7487	1969
25°	2031	1049
35°	706	458
45°	331	264
55°	151	142
65°	62	66
75°	22	24
85°	7	8
90°	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9945
5°	9818
10°	9410
15°	7487
20°	4242
25°	2031
30°	1062
35°	706
40°	480
45°	331
50°	232
55°	151
60°	105
65°	62
70°	37
75°	22
80°	11
85°	7
90°	4

(END OF REPORT)