

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: LVE01933 LAB: "EHV"

Luminaire Tested: **715-MH70PAR30-SP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: Test Report: LVE01933 LAB: "EHV"  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 715-MH70PAR30-SP  
Description:  
Light Source: CDM-R 70W PAR30L SP /830  
Bare lamp data for 715  
Ballast/Driver: -

**Summary**

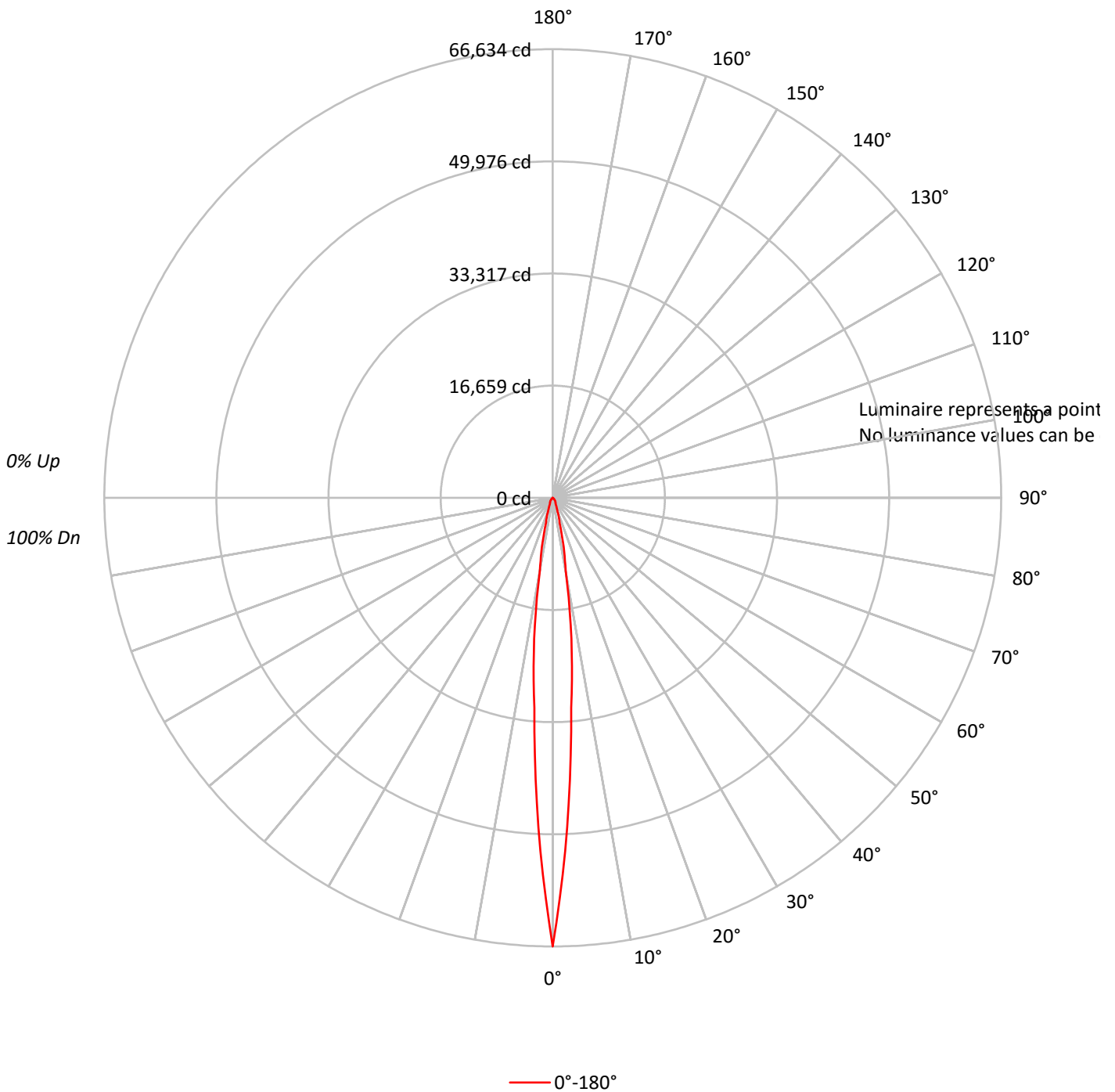
Lumens per Lamp: 4850 (1 lamp)  
Luminaire Lumens: 5243.2 lumens  
Efficiency: 108.1%  
Efficacy: 61.0 lumens/watt  
Spacing Criteria (0/90/45): 0.16 / 0.16 / 0.21  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

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



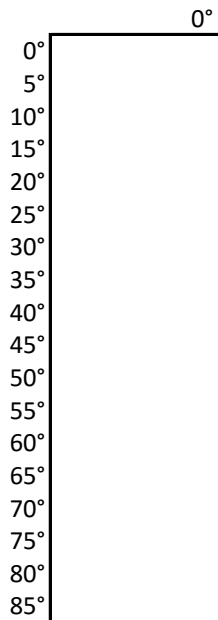


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	129	129	129	129	126	126	126	126	120	120	120	115	115	115	110	110	110	108	108	108	108
1	124	122	120	118	122	120	118	116	116	114	113	112	111	110	108	107	106	105	105	105	105
2	120	116	113	111	118	115	112	109	111	109	107	108	106	105	105	104	103	101	101	101	101
3	117	112	108	105	115	110	107	104	107	105	102	105	103	101	103	101	99	98	98	98	98
4	113	107	103	100	111	106	102	99	104	101	98	102	99	97	100	98	96	95	95	95	95
5	110	104	99	96	108	103	99	96	101	97	95	99	96	94	98	95	93	92	92	92	92
6	107	100	96	93	106	100	95	92	98	95	92	97	94	91	96	93	91	90	90	90	90
7	104	97	93	90	103	97	93	90	96	92	89	95	91	89	93	91	89	87	87	87	87
8	102	95	91	88	101	94	90	87	93	90	87	92	89	87	92	89	86	85	85	85	85
9	99	92	88	85	98	92	88	85	91	88	85	90	87	85	90	87	85	84	84	84	84
10	97	90	86	84	96	90	86	83	89	86	83	89	85	83	88	85	83	82	82	82	82

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	2680.9	51.1	55.3
10°-20°	1359.7	25.9	28.0
20°-30°	529.3	10.1	10.9
30°-40°	396.0	7.6	8.2
40°-50°	174.0	3.3	3.6
50°-60°	67.8	1.3	1.4
60°-70°	32.8	0.6	0.7
70°-80°	2.9	0.1	0.1
80°-90°	0.0	0.0	0.0
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°	4569.8	87.2	94.2
0°-40°	4965.8	94.7	102.4
0°-60°	5207.5	99.3	107.4
0°-90°	5243.2	100.0	108.1
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°	5243.2	100.0	108.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	66634	
5°	31279	###
15°	3935	1360
25°	1010	529
35°	675	396
45°	200	174
55°	70	68
65°	35	33
75°	0	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	66634
5°	31279
10°	10941
15°	3935
20°	1856
25°	1010
30°	797
35°	675
40°	399
45°	200
50°	112
55°	70
60°	52
65°	35
70°	11
75°	0
80°	0
85°	0
90°	0

(END OF REPORT)