

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: SOMK990310050 LAB: CCSL

Luminaire Tested: **716-2-MH100PAR38-SP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: Test Report: SOMK990310050 LAB: CCSL
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 716-2-MH100PAR38-SP
Description:
Light Source: CDM100/PAR38/SP/3K
Bare lamp data for 716-2
Ballast/Driver: -

Summary

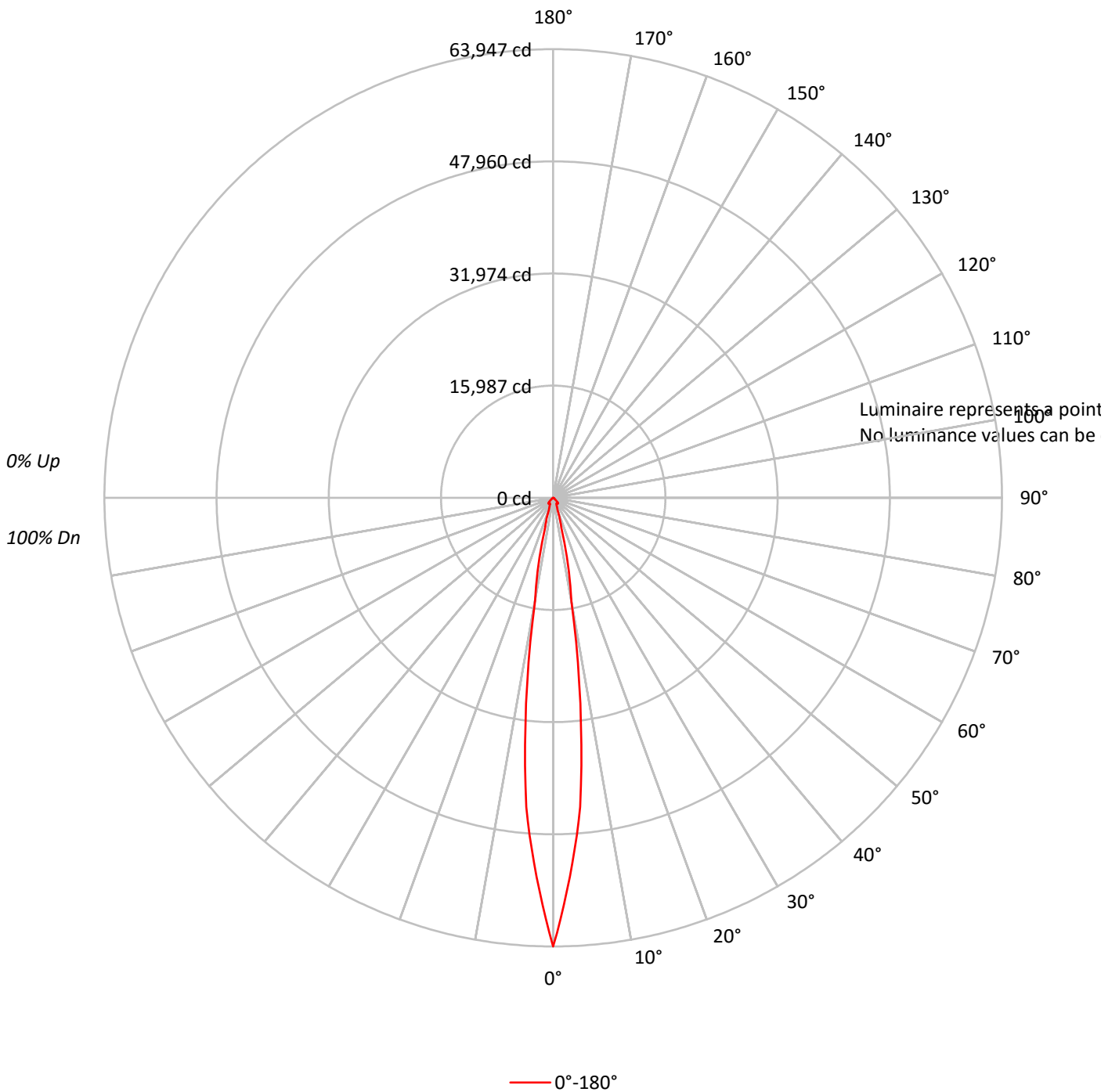
Lumens per Lamp: 6800 (1 lamp)
Luminaire Lumens: 7175.5 lumens
Efficiency: 105.5%
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 100
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	126	126	126	126	123	123	123	123	117	117	117		112	112	112		108	108	108	106
1	121	118	116	114	118	116	114	112	112	110	108		108	106	105		104	103	102	100
2	116	112	108	105	114	110	107	104	106	104	101		103	101	99		101	99	97	96
3	112	106	102	98	110	105	101	97	102	99	96		99	97	94		97	95	93	92
4	108	101	97	93	106	100	96	92	98	94	91		96	93	90		94	92	89	88
5	104	97	92	89	103	96	92	88	95	91	88		93	90	87		91	88	86	85
6	101	94	89	85	100	93	88	85	91	87	84		90	87	84		89	86	83	82
7	98	90	86	82	97	90	85	82	89	85	82		88	84	81		86	83	81	80
8	95	88	83	80	94	87	83	80	86	82	79		85	82	79		84	81	79	78
9	93	85	81	78	92	85	80	77	84	80	77		83	80	77		82	79	77	76
10	91	83	79	76	90	83	78	76	82	78	75		81	78	75		81	77	75	74

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	3409.3	47.5	50.1
10°-20°	1659.1	23.1	24.4
20°-30°	550.3	7.7	8.1
30°-40°	600.7	8.4	8.8
40°-50°	584.8	8.1	8.6
50°-60°	187.5	2.6	2.8
60°-70°	90.9	1.3	1.3
70°-80°	57.0	0.8	0.8
80°-90°	35.7	0.5	0.5
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°	5618.8	78.3	82.6
0°-40°	6219.5	86.7	91.5
0°-60°	6991.7	97.4	102.8
0°-90°	7175.5	100.0	105.5
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°	7175.5	100.0	105.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	63947	
5°	44216	###
15°	4448	1659
25°	1107	550
35°	918	601
45°	816	585
55°	184	187
65°	84	91
75°	58	57
85°	32	36
90°	30	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	63947
5°	44216
10°	14942
15°	4448
20°	1727
25°	1107
30°	893
35°	918
40°	1084
45°	816
50°	337
55°	184
60°	137
65°	84
70°	63
75°	58
80°	37
85°	32
90°	30

(END OF REPORT)