

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: **740-MH100PAR38-FL**

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: 740-MH100PAR38-FL
Description:
Light Source: CDM100/PAR38/FL/3K
Bare lamp data for 740
Ballast/Driver: -

Summary

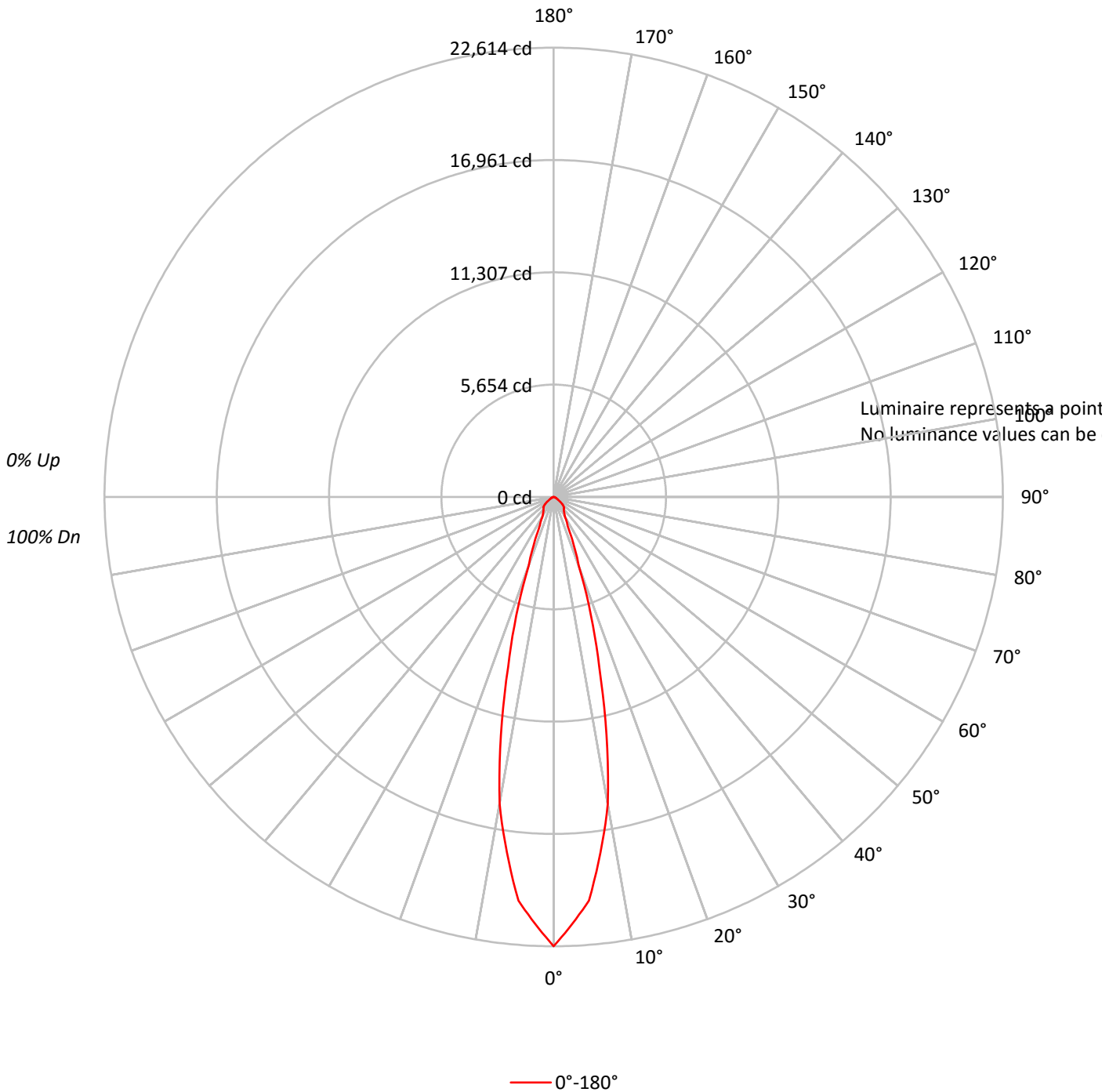
Lumens per Lamp: 6800 (1 lamp)
Luminaire Lumens: 6929.2 lumens
Efficiency: 101.9%
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.44
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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



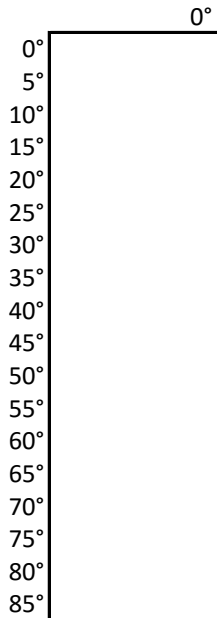


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	121	121	121	121	118	118	118	118	113	113	113		108	108	108		104	104	104	102
1	116	113	110	108	113	111	108	106	106	105	103		103	101	100		99	98	97	95
2	110	105	101	98	108	104	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	90	103	98	93	89	95	91	88		92	89	87		90	88	85	84
4	101	93	88	84	99	92	87	84	90	86	83		88	84	82		86	83	81	79
5	96	89	83	79	95	88	82	79	86	81	78		84	80	77		83	79	77	75
6	93	84	79	75	91	83	78	74	82	77	74		81	77	73		79	76	73	72
7	89	80	75	71	88	80	75	71	79	74	71		77	73	70		76	73	70	69
8	86	77	72	68	85	77	71	68	76	71	68		75	70	67		74	70	67	66
9	83	74	69	65	82	74	69	65	73	68	65		72	68	65		71	67	64	63
10	80	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1804.8	26.0	26.5
10°-20°	2486.7	35.9	36.6
20°-30°	926.8	13.4	13.6
30°-40°	579.3	8.4	8.5
40°-50°	547.5	7.9	8.1
50°-60°	324.8	4.7	4.8
60°-70°	131.0	1.9	1.9
70°-80°	79.0	1.1	1.2
80°-90°	49.4	0.7	0.7
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°	5218.3	75.3	76.7
0°-40°	5797.6	83.7	85.3
0°-60°	6669.9	96.3	98.1
0°-90°	6929.2	100.0	101.9
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°	6929.2	100.0	101.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	22614	
5°	20388	###
15°	8846	2487
25°	1734	927
35°	905	579
45°	736	548
55°	343	325
65°	122	131
75°	77	79
85°	44	49
90°	40	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22614
5°	20388
10°	15692
15°	8846
20°	3666
25°	1734
30°	1114
35°	905
40°	785
45°	736
50°	580
55°	343
60°	194
65°	122
70°	92
75°	77
80°	53
85°	44
90°	40

(END OF REPORT)