

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:

Luminaire Tested: **1409-75MR16-12-NSP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number:
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1409-75MR16-12-NSP
Description:
Light Source: Q75MR16/C/NSP15°-EYF
Bare lamp data for 1409
Ballast/Driver: -

Summary

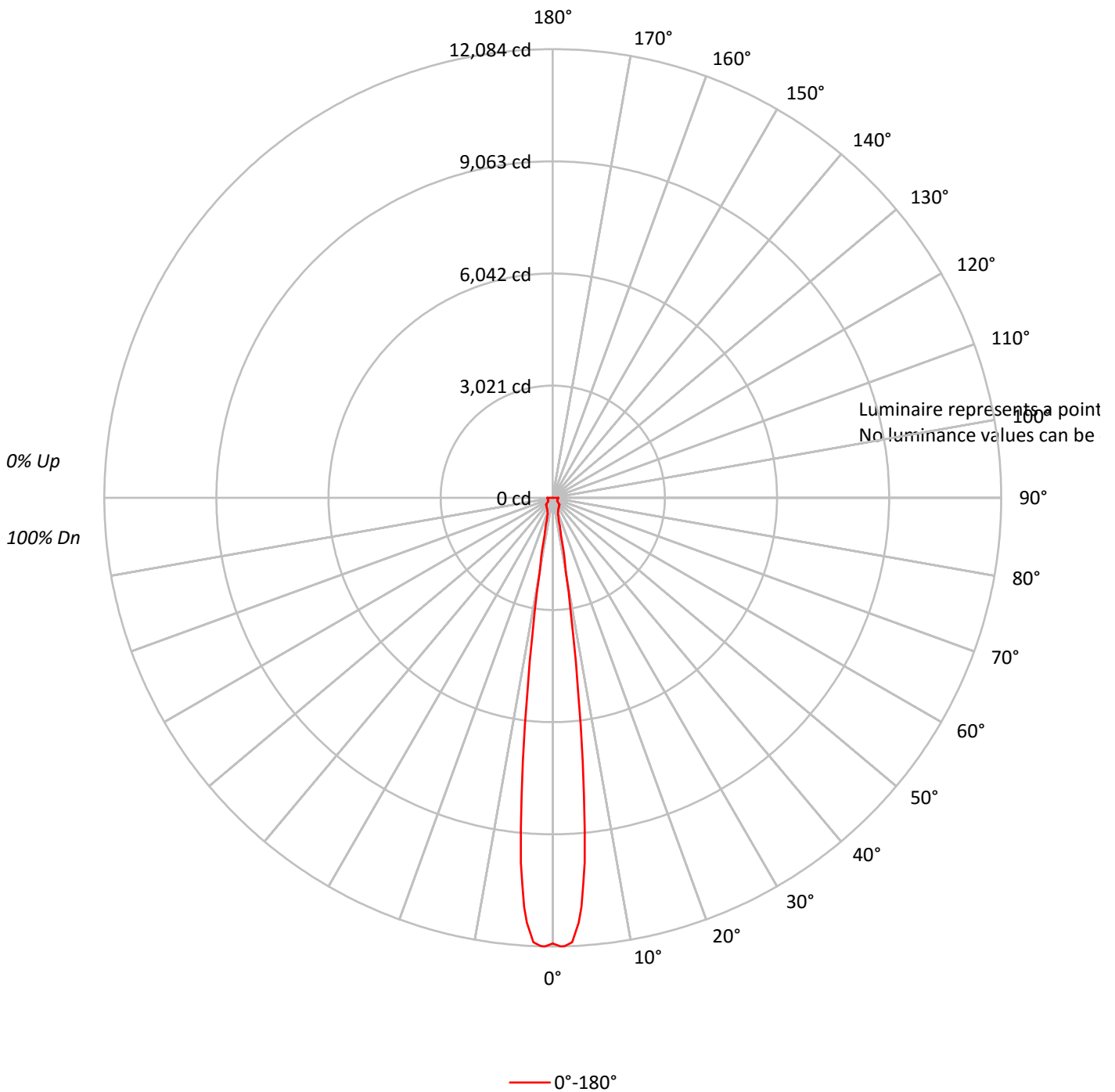
Lumens per Lamp: 2063 (1 lamp)
Luminaire Lumens: 1953.4 lumens
Efficiency: 94.7%
Efficacy: -
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 0
Input Voltage (V): NR
Input Current (A_{in}): 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	113	113	113	113	110	110	110	110	105	105	105	101	101	101	97	97	97	95
1	103	98	94	90	100	96	92	89	92	89	86	88	86	83	85	83	81	79
2	96	89	83	78	93	87	82	77	84	79	75	81	77	74	78	75	72	70
3	90	81	75	70	88	80	74	69	77	72	68	75	70	67	72	69	66	64
4	85	76	69	64	83	75	68	63	72	67	62	70	65	62	68	64	61	59
5	81	71	64	59	79	70	64	59	68	63	58	67	62	58	65	61	57	56
6	77	67	61	56	76	66	60	56	65	59	55	63	58	55	62	58	54	53
7	74	64	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	50
8	71	61	55	51	70	61	55	51	59	54	50	58	54	50	57	53	50	48
9	68	59	53	49	67	58	53	49	57	52	48	56	52	48	56	51	48	47
10	66	57	51	47	65	56	51	47	55	50	47	55	50	47	54	50	47	45

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	636.4	32.6	30.8
10°-20°	216.0	11.1	10.5
20°-30°	163.0	8.3	7.9
30°-40°	181.8	9.3	8.8
40°-50°	181.9	9.3	8.8
50°-60°	133.8	6.8	6.5
60°-70°	137.9	7.1	6.7
70°-80°	147.1	7.5	7.1
80°-90°	155.5	8.0	7.5
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°	1015.4	52.0	49.2
0°-40°	1197.2	61.3	58.0
0°-60°	1512.9	77.5	73.3
0°-90°	1953.4	100.0	94.7
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°	1953.4	100.0	94.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	12000	
5°	9868	636
15°	621	216
25°	349	163
35°	292	182
45°	260	182
55°	147	134
65°	139	138
75°	140	147
85°	140	155
90°	150	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12000
1.25°	12105
2.5°	11984
3.75°	11338
5°	9868
6.25°	7614
7.5°	5216
8.75°	3369
10°	2049
12.5°	1024
15°	621
17.5°	465
20°	411
22.5°	376
25°	349
27.5°	332
30°	314
35°	292
40°	263
45°	260
50°	161
55°	147
60°	142
65°	139
70°	136
75°	140
80°	140
85°	140
90°	150

(END OF REPORT)