

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P430715

Luminaire Tested: **LAM4B412R309040DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B412R309040DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

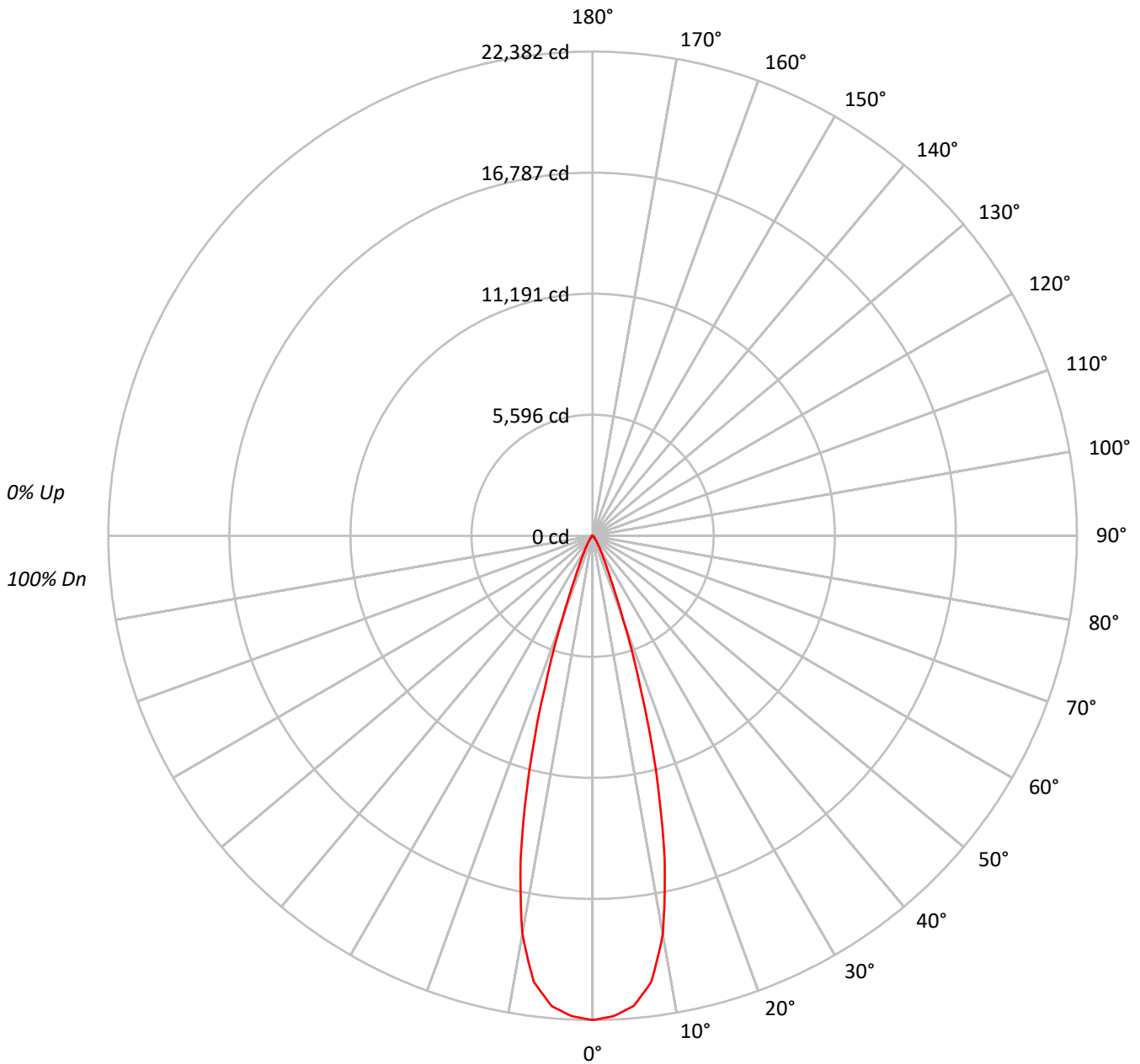
Lumens per Lamp: N/A
Luminaire Lumens: 6094.7 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	95	94	93	93	93	93
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87	87	87	87
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	84	84	84
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81	81	81	81
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79	79	79	79
8	92	86	81	79	91	85	81	78	84	81	78	83	80	78	83	80	78	77	77	77	77
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74	74	74	74
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	73	72	72	72	72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11042870
5°	10801662
10°	9365621
15°	5804806
20°	2127529
25°	711183
30°	349059
35°	174066
40°	107945
45°	68588
50°	48817
55°	39740
60°	34241
65°	26968
70°	33323
75°	32979
80°	32959
85°	32833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1987.7	32.6
10°-20°	3000.9	49.2
20°-30°	731.7	12.0
30°-40°	200.4	3.3
40°-50°	80.7	1.3
50°-60°	43.2	0.7
60°-70°	25.7	0.4
70°-80°	19.8	0.3
80°-90°	4.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5720.3	93.9
0°-40°	5920.6	97.1
0°-60°	6044.5	99.2
0°-90°	6094.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22382	
5°	21810	###
15°	11364	3001
25°	1306	732
35°	289	200
45°	98	81
55°	46	43
65°	23	26
75°	17	20
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22382.1
2.5°	22231.8
5°	21809.9
7.5°	20804.1
10°	18694.2
12.5°	15387.7
15°	11364.5
17.5°	7323.9
20°	4052.1
22.5°	2161.9
25°	1306.4
27.5°	884.4
30°	612.7
32.5°	416.2
35°	289.0
37.5°	213.9
40°	167.6
42.5°	127.2
45°	98.3
47.5°	80.9
50°	63.6
52.5°	57.8
55°	46.2
57.5°	40.5
60°	34.7
62.5°	28.9
65°	23.1
67.5°	23.1
70°	23.1
72.5°	23.1
75°	17.3
77.5°	17.3
80°	11.6
82.5°	5.8
85°	5.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)