

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: P432193

Luminaire Tested: **LAM4B108R359027DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R359027DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 755.6 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

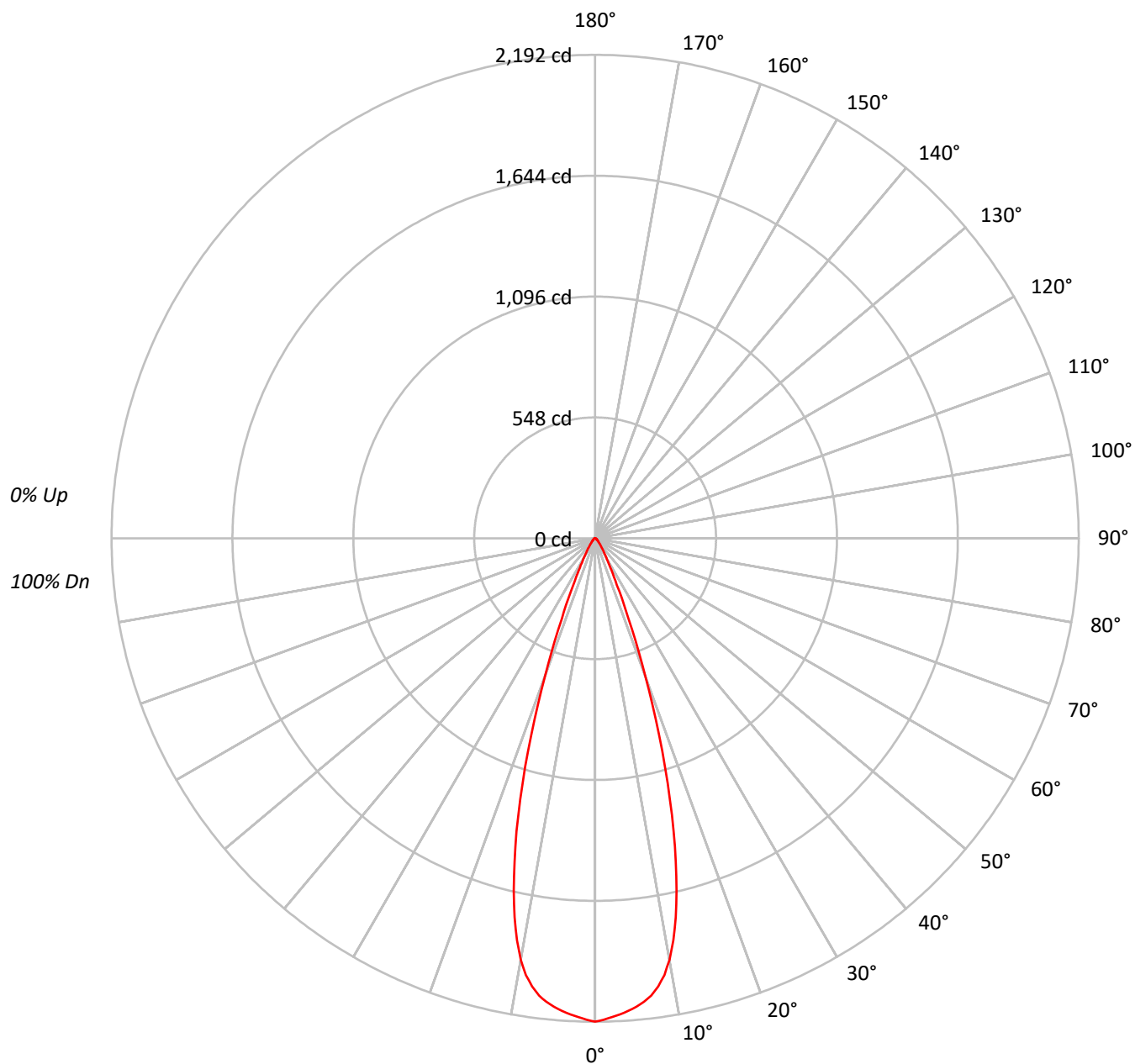
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	105	103		102	101	100		99	98	97
2	110	106	103	100		108	104	101	99		101	99	97		98	96	95		96	94	93
3	106	101	97	94		104	100	96	93		97	94	92		95	92	90		93	91	89
4	102	96	92	89		101	95	91	88		93	90	87		91	88	86		90	87	85
5	99	92	88	84		97	91	87	84		90	86	83		88	85	83		87	84	82
6	96	89	84	81		94	88	84	80		87	83	80		85	82	79		84	81	79
7	92	85	81	77		91	85	80	77		84	80	77		82	79	76		81	78	76
8	89	82	78	74		88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72		86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69		83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1081291
5°	1056349
10°	972122
15°	702635
20°	347106
25°	127331
30°	57426
35°	31260
40°	19386
45°	13118
50°	9825
55°	8430
60°	7401
65°	7005
70°	6491
75°	5719
80°	6535
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	26.2
10°-20°	362.2	47.9
20°-30°	126.1	16.7
30°-40°	34.9	4.6
40°-50°	15.2	2.0
50°-60°	8.8	1.2
60°-70°	6.0	0.8
70°-80°	3.3	0.4
80°-90°	0.9	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°	686.5	90.8
0°-40°	721.4	95.5
0°-60°	745.5	98.7
0°-90°	755.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2192	
5°	2133	198
15°	1376	362
25°	234	126
35°	52	35
45°	19	15
55°	10	9
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2191.6
1°	2184.0
2°	2172.8
3°	2161.5
4°	2148.7
5°	2132.9
6°	2113.3
7°	2089.3
8°	2052.4
9°	2005.0
10°	1940.4
11°	1857.6
12°	1757.6
13°	1640.3
14°	1511.7
15°	1375.6
16°	1230.4
17°	1084.5
18°	937.8
19°	796.5
20°	661.1
22.5°	394.1
25°	233.9
26°	194.8
27°	162.4
28°	137.6
29°	117.3
30°	100.8
32.5°	71.4
35°	51.9
37.5°	39.1
40°	30.1
42.5°	23.3
45°	18.8
47.5°	15.8
50°	12.8
52.5°	11.3
55°	9.8
57.5°	8.3
60°	7.5
62.5°	6.8
65°	6.0
67.5°	5.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	3.0
77.5°	2.3
80°	2.3
82.5°	1.5
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







70°	4.5
72.5°	3.8



(END OF REPORT)