

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: P432191

Luminaire Tested: **LAM4B108R359024DE010x1MMS**

Issue Date: 11/23/2020

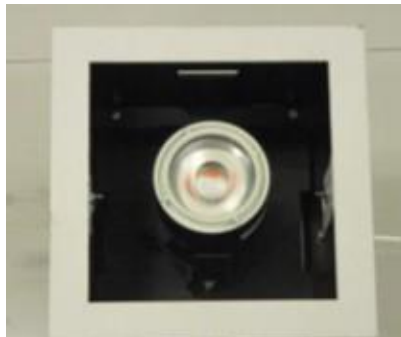
Test Information

Test Method: LM-41-14
Report Number: P432191
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: LAM4B108R359024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 692.8 lumens
Efficiency: N/A
Efficacy: 60.8 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

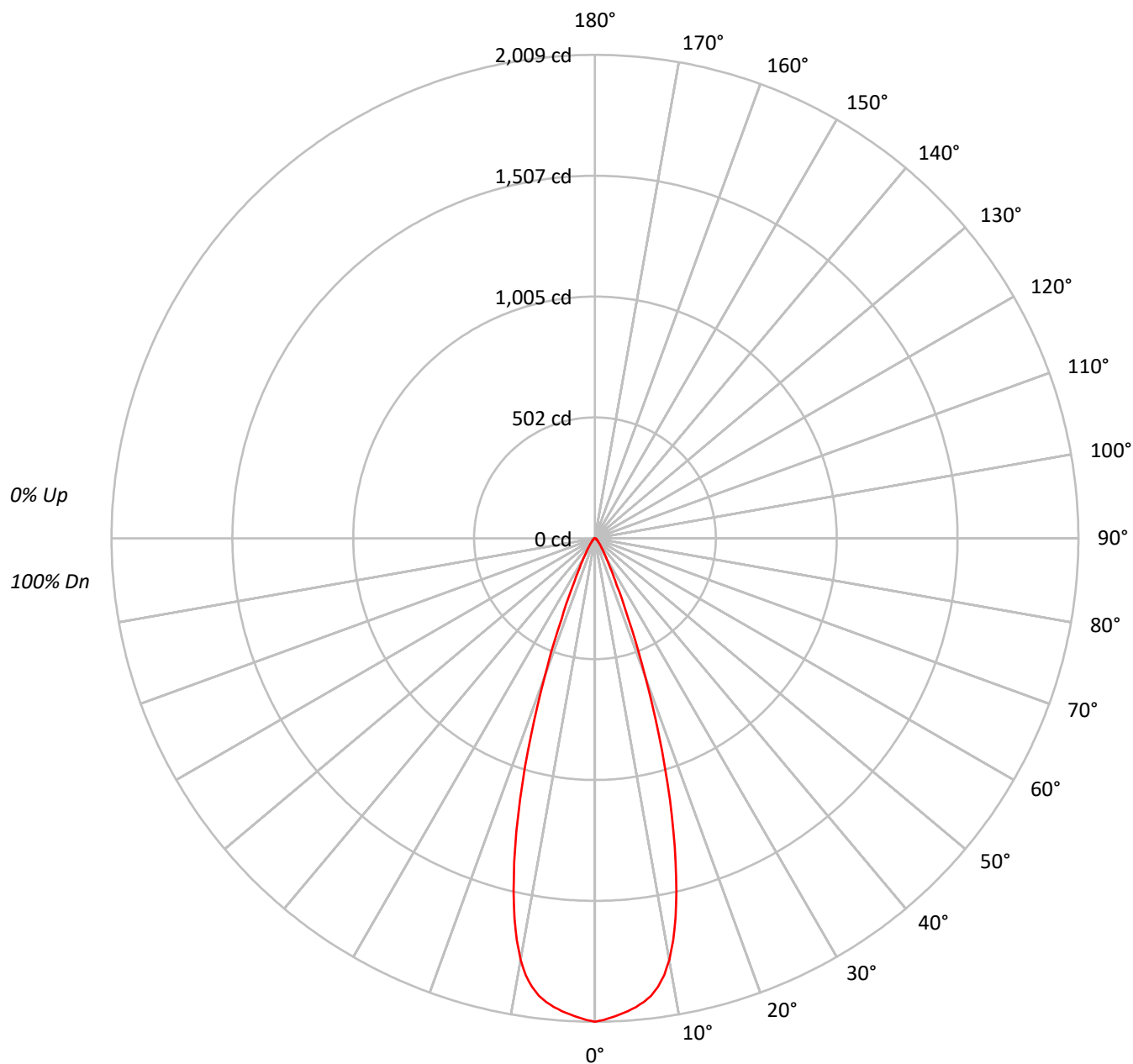
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	991348
5°	968489
10°	891262
15°	644201
20°	318229
25°	116716
30°	52641
35°	28670
40°	17776
45°	12001
50°	8980
55°	7742
60°	6809
65°	6421
70°	5914
75°	5338
80°	5967
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	26.2
10°-20°	332.1	47.9
20°-30°	115.6	16.7
30°-40°	32.1	4.6
40°-50°	13.9	2.0
50°-60°	8.1	1.2
60°-70°	5.4	0.8
70°-80°	3.0	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°	629.4	90.9
0°-40°	661.5	95.5
0°-60°	683.5	98.7
0°-90°	692.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2009	
5°	1956	182
15°	1261	332
25°	214	116
35°	48	32
45°	17	14
55°	9	8
65°	6	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2009.3
1°	2002.4
2°	1992.1
3°	1981.7
4°	1970.0
5°	1955.5
6°	1937.6
7°	1915.5
8°	1881.8
9°	1838.3
10°	1779.0
11°	1703.2
12°	1611.5
13°	1503.9
14°	1386.0
15°	1261.2
16°	1128.1
17°	994.3
18°	859.9
19°	730.2
20°	606.1
22.5°	361.3
25°	214.4
26°	178.6
27°	148.9
28°	126.2
29°	107.6
30°	92.4
32.5°	65.5
35°	47.6
37.5°	35.9
40°	27.6
42.5°	21.4
45°	17.2
47.5°	14.5
50°	11.7
52.5°	10.3
55°	9.0
57.5°	7.6
60°	6.9
62.5°	6.2
65°	5.5
67.5°	4.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	2.8
77.5°	2.1
80°	2.1
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







70°	4.1
72.5°	3.4



(END OF REPORT)