

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: P432248

Luminaire Tested: **LAM4B108R459035DE010x1MMS**

Issue Date: 11/23/2020

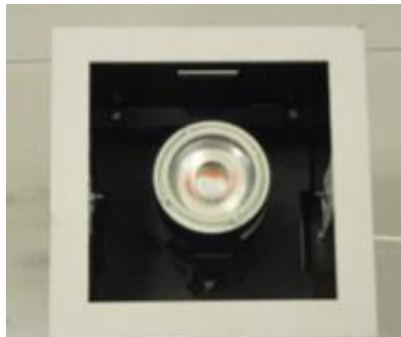
Test Information

Test Method: LM-41-14
Report Number: P432248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R459035DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.3 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

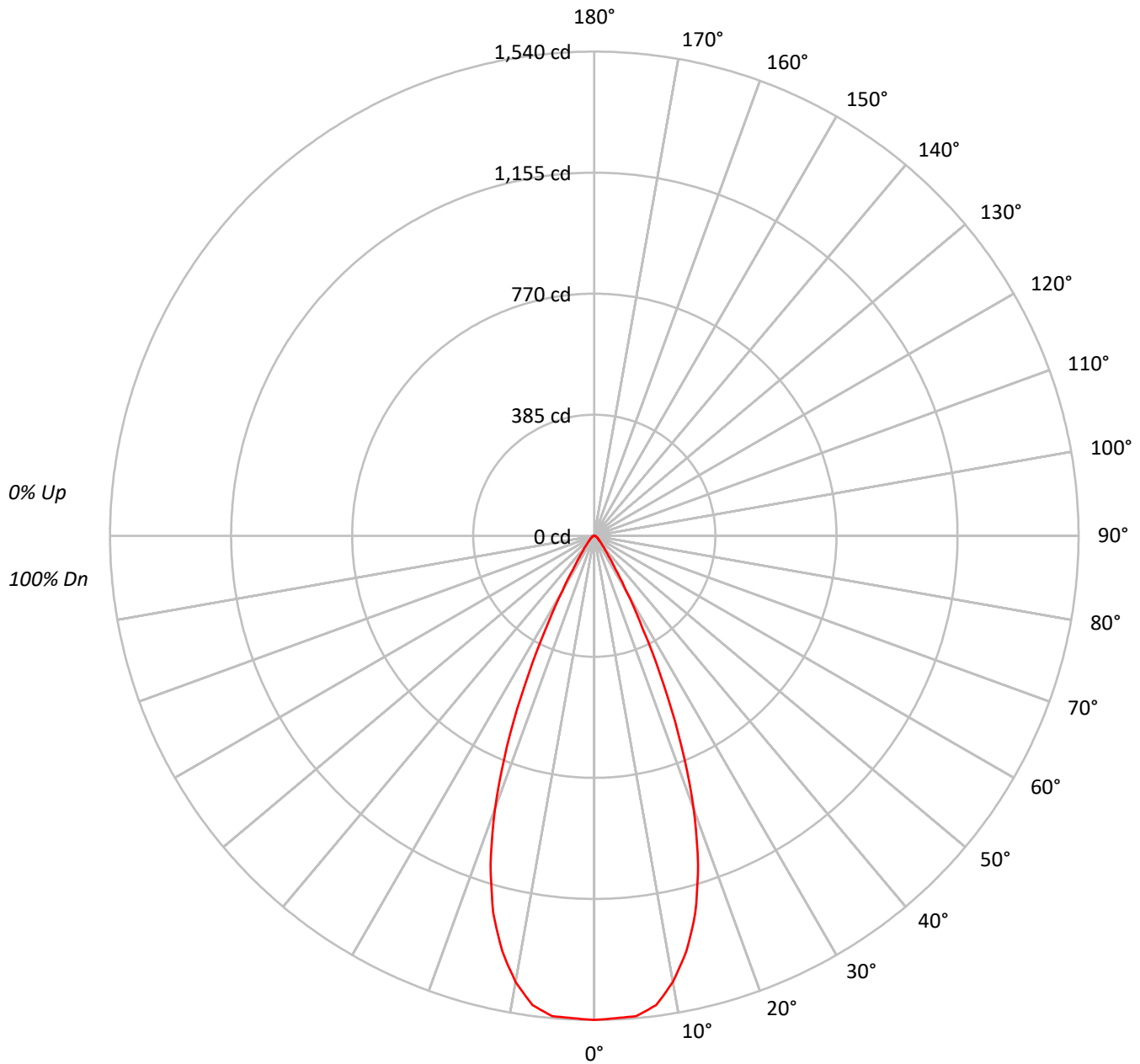
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	112	109	107	105	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	94	91	103	98	93	90	95	92	89		93	90	87		90
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	79	76	91	84	79	75	82	78	75		81	77	74		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	66	62	70	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	759805
5°	759537
10°	721928
15°	634190
20°	485140
25°	283189
30°	115935
35°	49028
40°	26729
45°	17234
50°	13509
55°	11698
60°	9473
65°	7472
70°	6924
75°	6100
80°	6819
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	17.5
10°-20°	338.0	41.1
20°-30°	238.2	29.0
30°-40°	58.6	7.1
40°-50°	20.4	2.5
50°-60°	12.1	1.5
60°-70°	6.7	0.8
70°-80°	3.7	0.4
80°-90°	1.0	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°	719.7	87.5
0°-40°	778.3	94.7
0°-60°	810.9	98.6
0°-90°	822.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1540	
5°	1534	144
15°	1242	338
25°	520	238
35°	81	59
45°	25	20
55°	14	12
65°	6	7
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1540.0
2.5°	1536.0
5°	1533.6
7.5°	1505.7
10°	1441.0
12.5°	1353.3
15°	1241.6
17.5°	1097.1
20°	924.0
22.5°	725.3
25°	520.2
27.5°	335.9
30°	203.5
32.5°	123.7
35°	81.4
37.5°	57.5
40°	41.5
42.5°	31.9
45°	24.7
47.5°	20.7
50°	17.6
52.5°	15.2
55°	13.6
57.5°	12.0
60°	9.6
62.5°	8.0
65°	6.4
67.5°	5.6
70°	4.8
72.5°	4.0
75°	3.2
77.5°	3.2
80°	2.4
82.5°	1.6
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)