

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: P433490

Luminaire Tested: **LAMR4B108R459027DE010x1MMS**

Issue Date: 11/23/2020

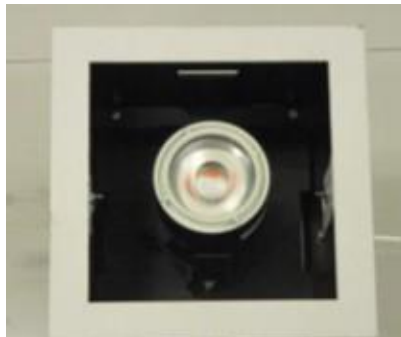
Test Information

Test Method: LM-41-14
Report Number: P433490
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: LAMR4B108R459027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 763.2 lumens
Efficiency: N/A
Efficacy: 66.9 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

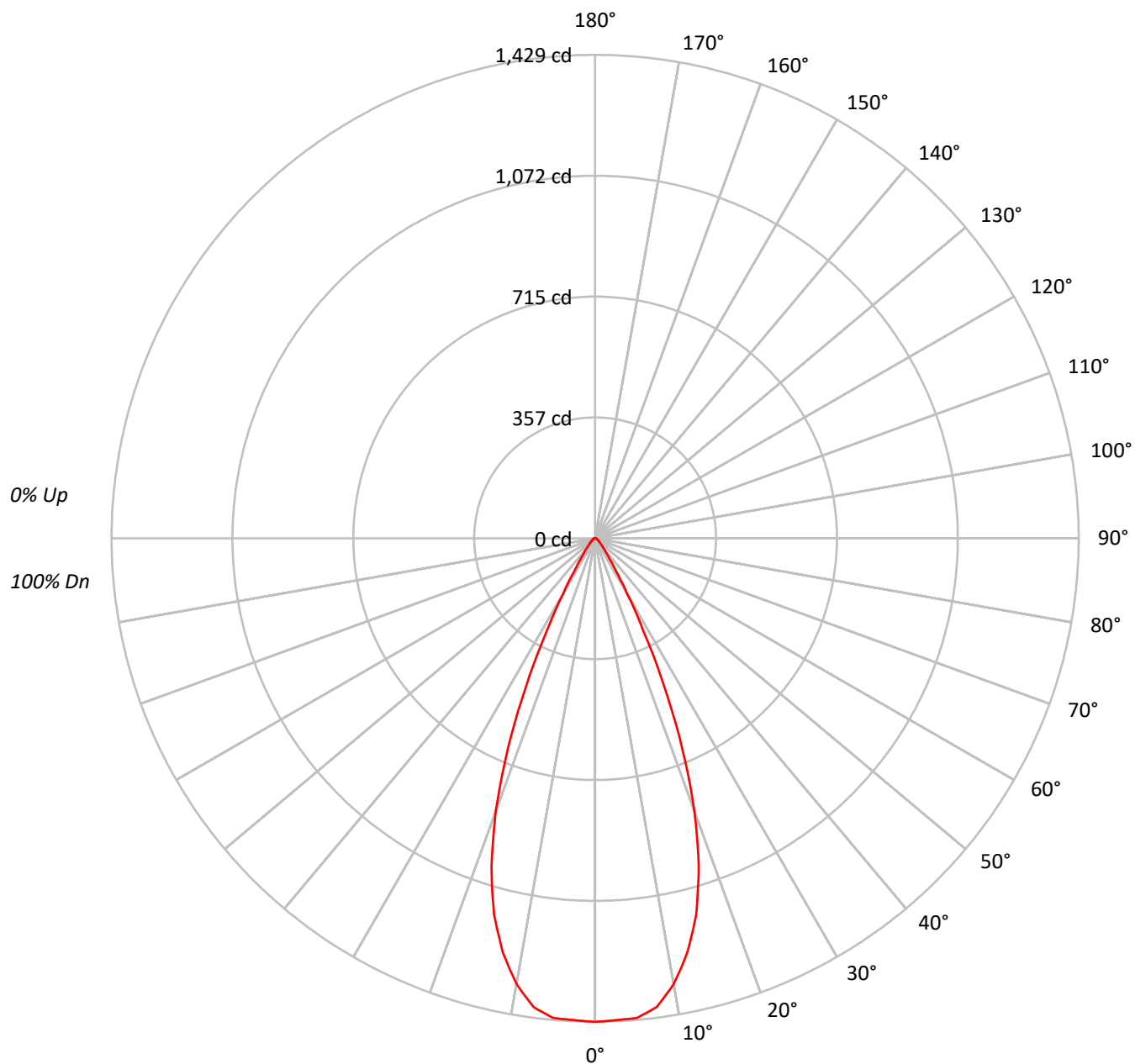
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	705237
5°	704959
10°	670075
15°	588628
20°	450277
25°	262883
30°	107617
35°	45474
40°	24796
45°	16048
50°	12511
55°	10838
60°	8782
65°	6888
70°	6347
75°	5719
80°	6251
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	17.5
10°-20°	313.7	41.1
20°-30°	221.1	29.0
30°-40°	54.4	7.1
40°-50°	19.0	2.5
50°-60°	11.2	1.5
60°-70°	6.2	0.8
70°-80°	3.4	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°	668.0	87.5
0°-40°	722.4	94.7
0°-60°	752.6	98.6
0°-90°	763.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1429	
5°	1423	133
15°	1152	314
25°	483	221
35°	76	54
45°	23	19
55°	13	11
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1429.4
2.5°	1425.7
5°	1423.4
7.5°	1397.5
10°	1337.5
12.5°	1256.1
15°	1152.4
17.5°	1018.3
20°	857.6
22.5°	673.2
25°	482.9
27.5°	311.8
30°	188.9
32.5°	114.8
35°	75.5
37.5°	53.3
40°	38.5
42.5°	29.6
45°	23.0
47.5°	19.3
50°	16.3
52.5°	14.1
55°	12.6
57.5°	11.1
60°	8.9
62.5°	7.4
65°	5.9
67.5°	5.2
70°	4.4
72.5°	3.7
75°	3.0
77.5°	3.0
80°	2.2
82.5°	1.5
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)