

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: P433502

Luminaire Tested: **LAMR4B108R459050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433502
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: LAMR4B108R459050DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 916.9 lumens
Efficiency: N/A
Efficacy: 80.4 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

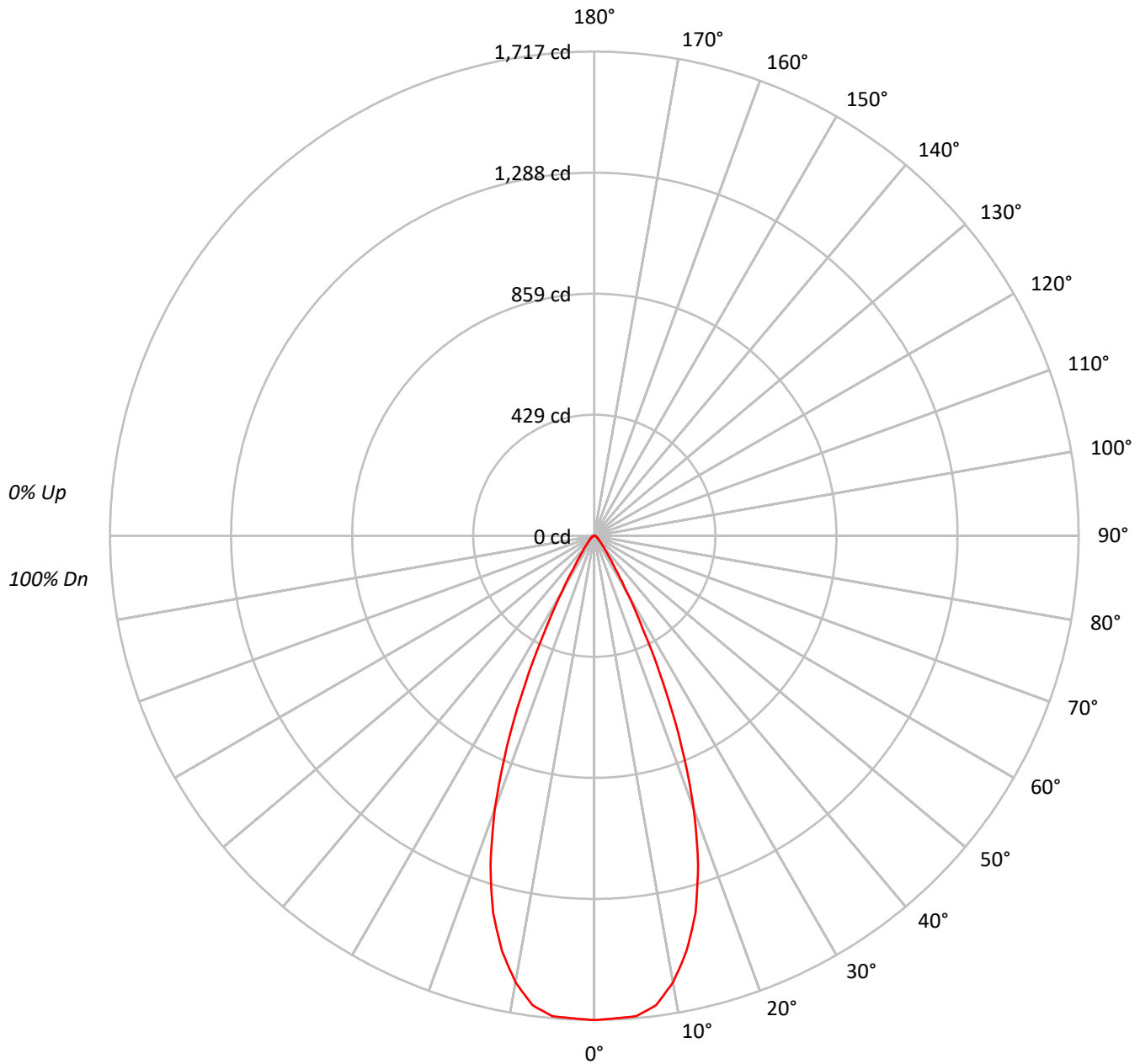
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89		
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76		
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66		
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63		
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	847330
5°	847050
10°	805142
15°	707232
20°	541005
25°	315852
30°	129266
35°	54689
40°	29820
45°	19258
50°	15044
55°	12989
60°	10558
65°	8289
70°	7645
75°	6863
80°	7671
85°	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	17.5
10°-20°	376.9	41.1
20°-30°	265.6	29.0
30°-40°	65.4	7.1
40°-50°	22.8	2.5
50°-60°	13.5	1.5
60°-70°	7.5	0.8
70°-80°	4.1	0.4
80°-90°	1.1	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°	802.6	87.5
0°-40°	868.0	94.7
0°-60°	904.3	98.6
0°-90°	916.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1717	
5°	1710	160
15°	1385	377
25°	580	266
35°	91	65
45°	28	23
55°	15	13
65°	7	7
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1717.4
2.5°	1713.0
5°	1710.3
7.5°	1679.1
10°	1607.1
12.5°	1509.2
15°	1384.6
17.5°	1223.5
20°	1030.4
22.5°	808.9
25°	580.2
27.5°	374.6
30°	226.9
32.5°	137.9
35°	90.8
37.5°	64.1
40°	46.3
42.5°	35.6
45°	27.6
47.5°	23.1
50°	19.6
52.5°	16.9
55°	15.1
57.5°	13.3
60°	10.7
62.5°	8.9
65°	7.1
67.5°	6.2
70°	5.3
72.5°	4.4
75°	3.6
77.5°	3.6
80°	2.7
82.5°	1.8
85°	0.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)