

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: P433751

Luminaire Tested: **LAMR4B208R359024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433751
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: LAMR4B208R359024DE010x1MMS
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: 1392.4 lumens
Efficiency: N/A
Efficacy: 67.6 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

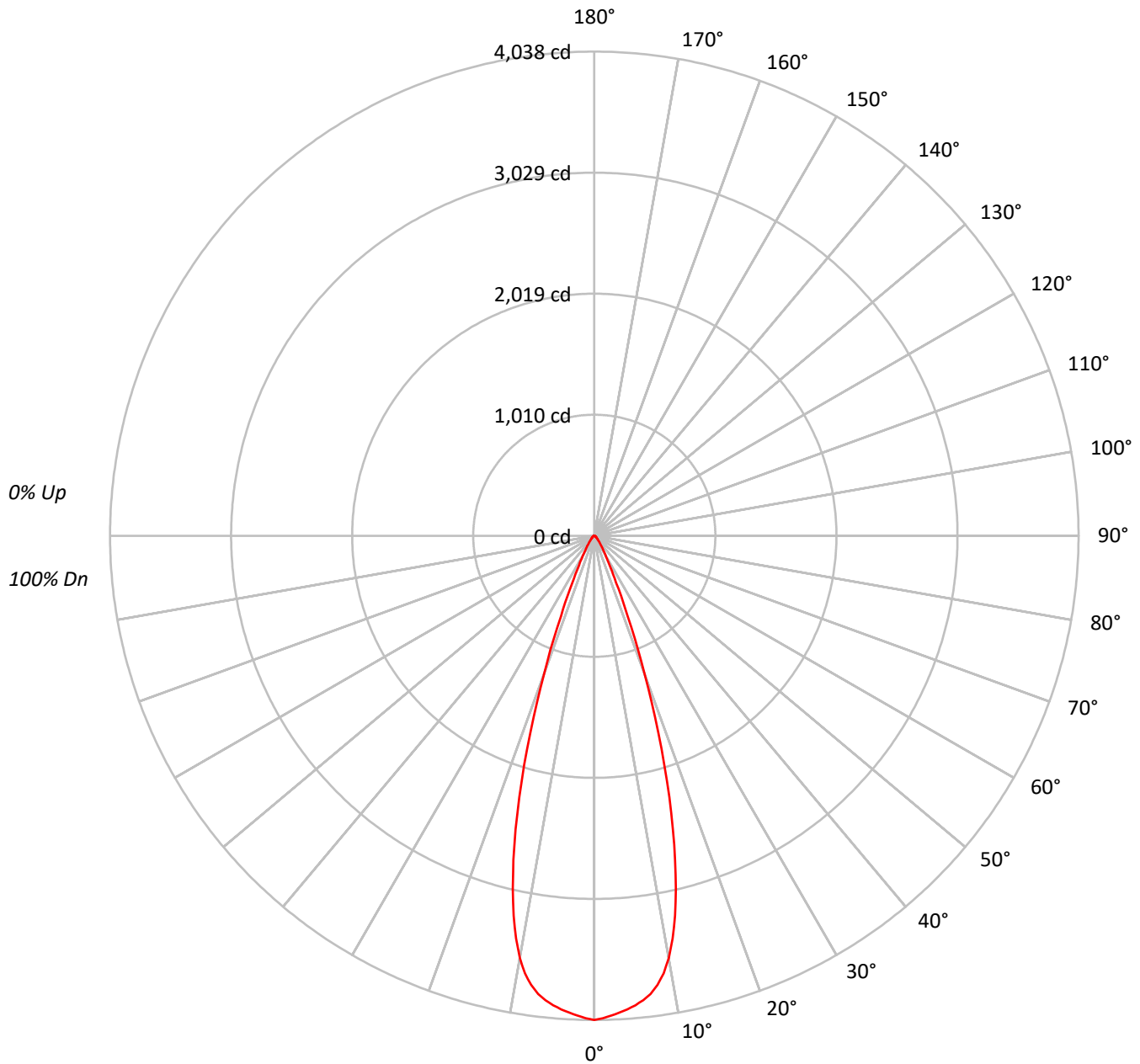
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91		
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87		
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84		
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81		
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78		
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75		
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72		
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70		
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1992513
5°	1946586
10°	1791393
15°	1294736
20°	639608
25°	234630
30°	105794
35°	57580
40°	35681
45°	24142
50°	18114
55°	15483
60°	13716
65°	12959
70°	11973
75°	10484
80°	11933
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	26.2
10°-20°	667.5	47.9
20°-30°	232.4	16.7
30°-40°	64.4	4.6
40°-50°	28.0	2.0
50°-60°	16.2	1.2
60°-70°	11.0	0.8
70°-80°	6.0	0.4
80°-90°	1.7	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°	1265.1	90.9
0°-40°	1329.5	95.5
0°-60°	1373.7	98.7
0°-90°	1392.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4038	
5°	3930	365
15°	2535	667
25°	431	232
35°	96	64
45°	35	28
55°	18	16
65°	11	11
75°	6	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4038.5
1°	4024.7
2°	4003.9
3°	3983.1
4°	3959.6
5°	3930.4
6°	3894.4
7°	3850.1
8°	3782.2
9°	3694.8
10°	3575.7
11°	3423.2
12°	3238.9
13°	3022.7
14°	2785.7
15°	2534.8
16°	2267.4
17°	1998.5
18°	1728.2
19°	1467.7
20°	1218.2
22.5°	726.2
25°	431.0
26°	359.0
27°	299.4
28°	253.6
29°	216.2
30°	185.7
32.5°	131.7
35°	95.6
37.5°	72.1
40°	55.4
42.5°	43.0
45°	34.6
47.5°	29.1
50°	23.6
52.5°	20.8
55°	18.0
57.5°	15.2
60°	13.9
62.5°	12.5
65°	11.1
67.5°	9.7



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CANDELA DISTRIBUTION (continued):

	0°
75°	5.5
77.5°	4.2
80°	4.2
82.5°	2.8
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







70°	8.3
72.5°	6.9



(END OF REPORT)