

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: P433754

Luminaire Tested: **LAMR4B208R359027DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433754
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: LAMR4B208R359027DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.7 lumens
Efficiency: N/A
Efficacy: 73.7 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

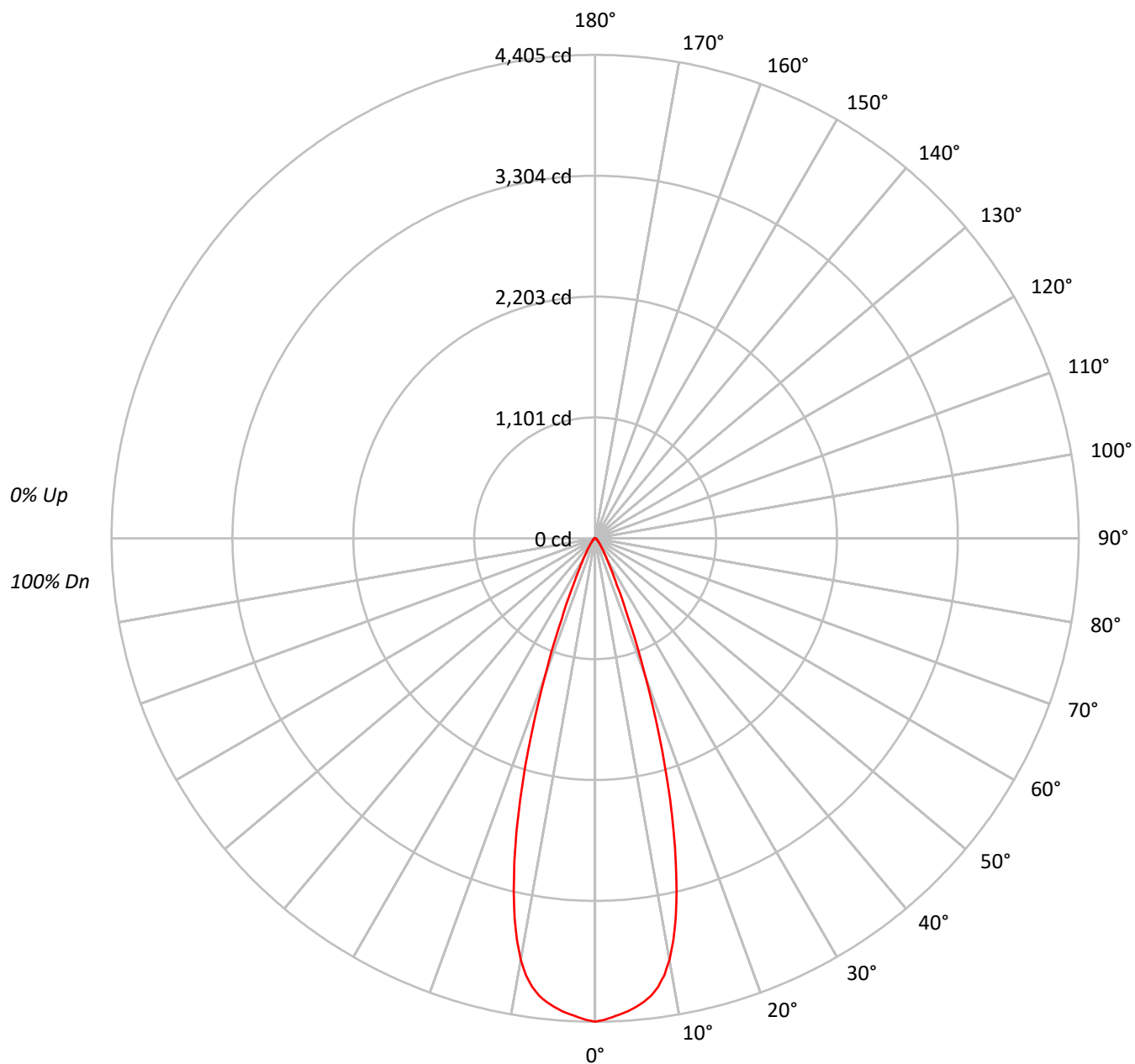
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2173238
5°	2123148
10°	1953864
15°	1412165
20°	697625
25°	255915
30°	115422
35°	62820
40°	38966
45°	26375
50°	19726
55°	16946
60°	14900
65°	14126
70°	13127
75°	11438
80°	12786
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.3	26.2
10°-20°	728.0	47.9
20°-30°	253.5	16.7
30°-40°	70.3	4.6
40°-50°	30.5	2.0
50°-60°	17.7	1.2
60°-70°	12.0	0.8
70°-80°	6.6	0.4
80°-90°	1.8	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°	1379.8	90.9
0°-40°	1450.0	95.5
0°-60°	1498.3	98.7
0°-90°	1518.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4405	
5°	4287	398
15°	2765	728
25°	470	253
35°	104	70
45°	38	31
55°	20	18
65°	12	12
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4404.8
1°	4389.7
2°	4367.0
3°	4344.4
4°	4318.7
5°	4286.9
6°	4247.6
7°	4199.3
8°	4125.2
9°	4030.0
10°	3900.0
11°	3733.7
12°	3532.6
13°	3296.8
14°	3038.3
15°	2764.7
16°	2473.0
17°	2179.7
18°	1885.0
19°	1600.8
20°	1328.7
22.5°	792.1
25°	470.1
26°	391.5
27°	326.5
28°	276.6
29°	235.8
30°	202.6
32.5°	143.6
35°	104.3
37.5°	78.6
40°	60.5
42.5°	46.9
45°	37.8
47.5°	31.7
50°	25.7
52.5°	22.7
55°	19.7
57.5°	16.6
60°	15.1
62.5°	13.6
65°	12.1
67.5°	10.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	6.0
77.5°	4.5
80°	4.5
82.5°	3.0
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







70°	9.1
72.5°	7.6



(END OF REPORT)