

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: P433808

Luminaire Tested: **LAMR4B208R459035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433808
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: LAMR4B208R459035DE010x1MMS
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: 1652.6 lumens
Efficiency: N/A
Efficacy: 80.2 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

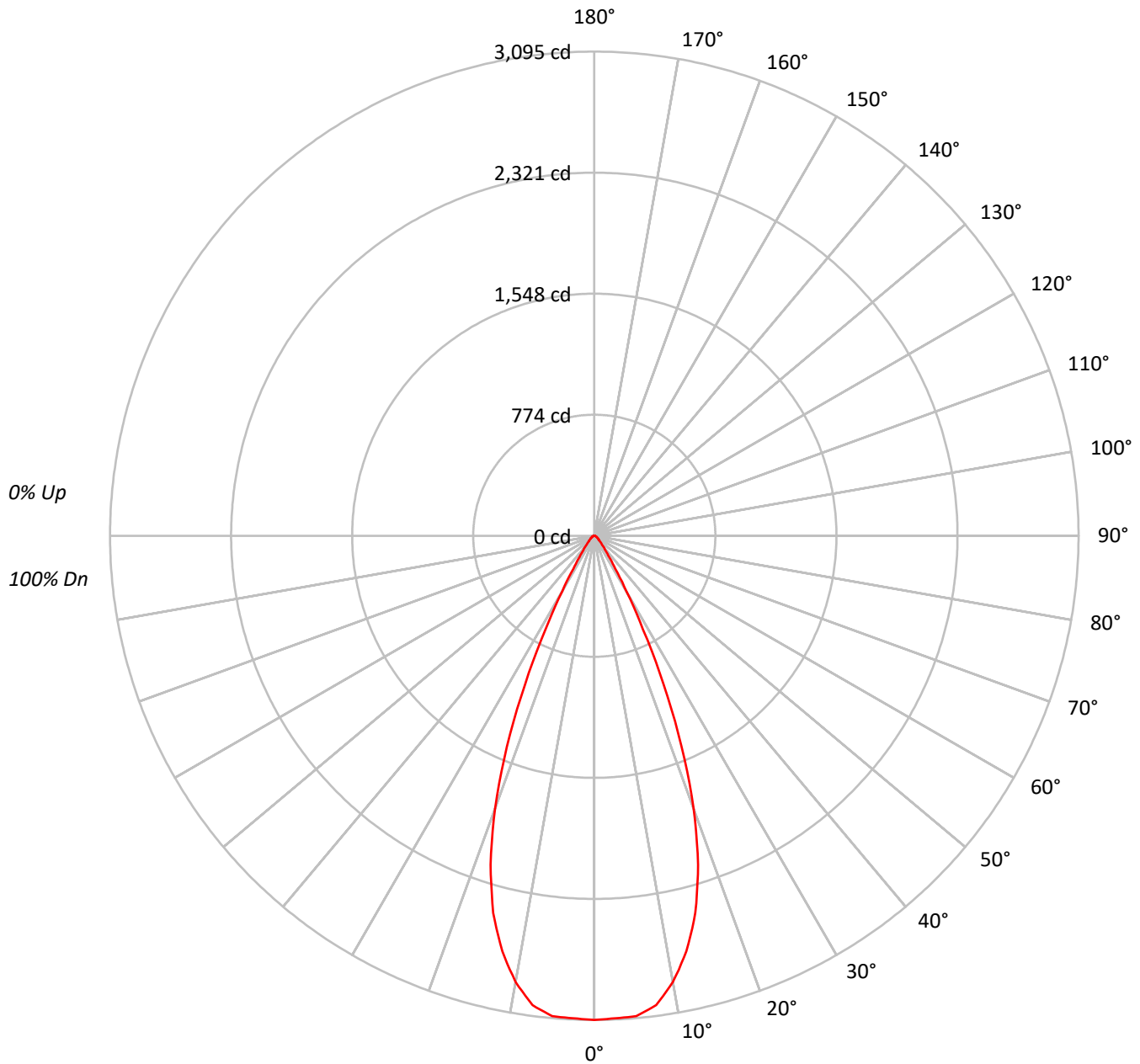
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1527108
5°	1526602
10°	1451070
15°	1274611
20°	975058
25°	569208
30°	233010
35°	98537
40°	53715
45°	34678
50°	27095
55°	23483
60°	18946
65°	14943
70°	13848
75°	12200
80°	13638
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	17.5
10°-20°	679.4	41.1
20°-30°	478.7	29.0
30°-40°	117.8	7.1
40°-50°	41.1	2.5
50°-60°	24.4	1.5
60°-70°	13.4	0.8
70°-80°	7.4	0.4
80°-90°	2.0	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°	1446.5	87.5
0°-40°	1564.3	94.7
0°-60°	1629.8	98.6
0°-90°	1652.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3095	
5°	3082	288
15°	2495	679
25°	1046	479
35°	164	118
45°	50	41
55°	27	24
65°	13	13
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3095.2
2.5°	3087.2
5°	3082.4
7.5°	3026.3
10°	2896.4
12.5°	2720.0
15°	2495.4
17.5°	2205.2
20°	1857.1
22.5°	1457.8
25°	1045.6
27.5°	675.2
30°	409.0
32.5°	248.6
35°	163.6
37.5°	115.5
40°	83.4
42.5°	64.1
45°	49.7
47.5°	41.7
50°	35.3
52.5°	30.5
55°	27.3
57.5°	24.1
60°	19.2
62.5°	16.0
65°	12.8
67.5°	11.2
70°	9.6
72.5°	8.0
75°	6.4
77.5°	6.4
80°	4.8
82.5°	3.2
85°	1.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)