

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: P433814

Luminaire Tested: **LAMR4B208R459050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433814
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: LAMR4B208R459050DE010x1MMS
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: 1843.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

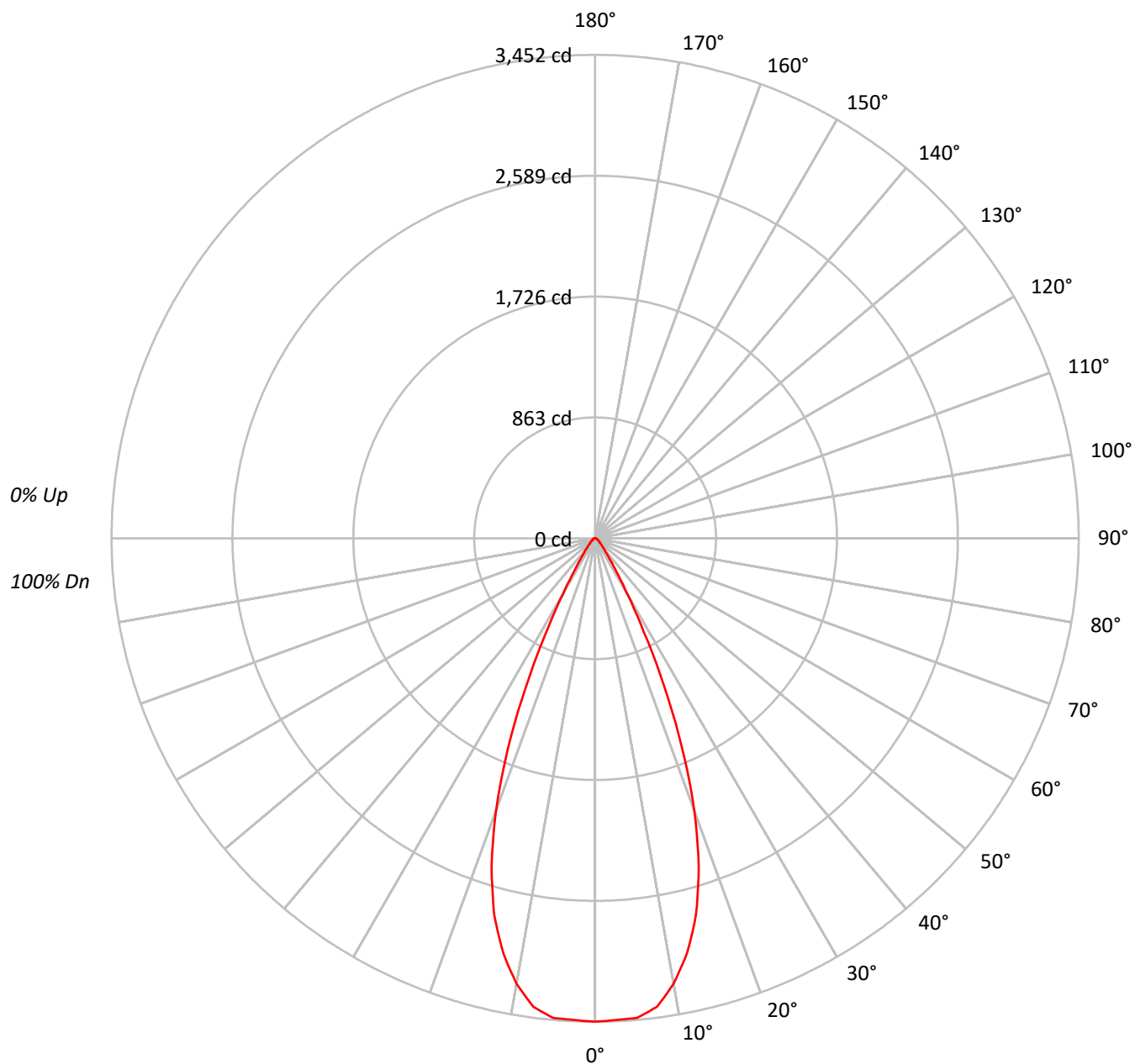
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1703048
5°	1702471
10°	1618250
15°	1421461
20°	1087418
25°	634806
30°	259843
35°	109860
40°	59898
45°	38655
50°	30165
55°	26150
60°	21215
65°	16694
70°	15435
75°	13725
80°	15343
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	17.5
10°-20°	757.6	41.1
20°-30°	533.8	29.0
30°-40°	131.4	7.1
40°-50°	45.8	2.5
50°-60°	27.1	1.5
60°-70°	15.0	0.8
70°-80°	8.3	0.4
80°-90°	2.2	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°	1613.1	87.5
0°-40°	1744.5	94.7
0°-60°	1817.5	98.6
0°-90°	1843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3452	
5°	3438	322
15°	2783	758
25°	1166	534
35°	182	131
45°	55	46
55°	30	27
65°	14	15
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3451.8
2.5°	3442.9
5°	3437.5
7.5°	3374.9
10°	3230.1
12.5°	3033.3
15°	2782.9
17.5°	2459.2
20°	2071.1
22.5°	1625.8
25°	1166.1
27.5°	753.0
30°	456.1
32.5°	277.2
35°	182.4
37.5°	128.8
40°	93.0
42.5°	71.5
45°	55.4
47.5°	46.5
50°	39.3
52.5°	34.0
55°	30.4
57.5°	26.8
60°	21.5
62.5°	17.9
65°	14.3
67.5°	12.5
70°	10.7
72.5°	8.9
75°	7.2
77.5°	7.2
80°	5.4
82.5°	3.6
85°	1.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)