

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: P433694

Luminaire Tested: **LAMR4B208R209050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R209050DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1847.4 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

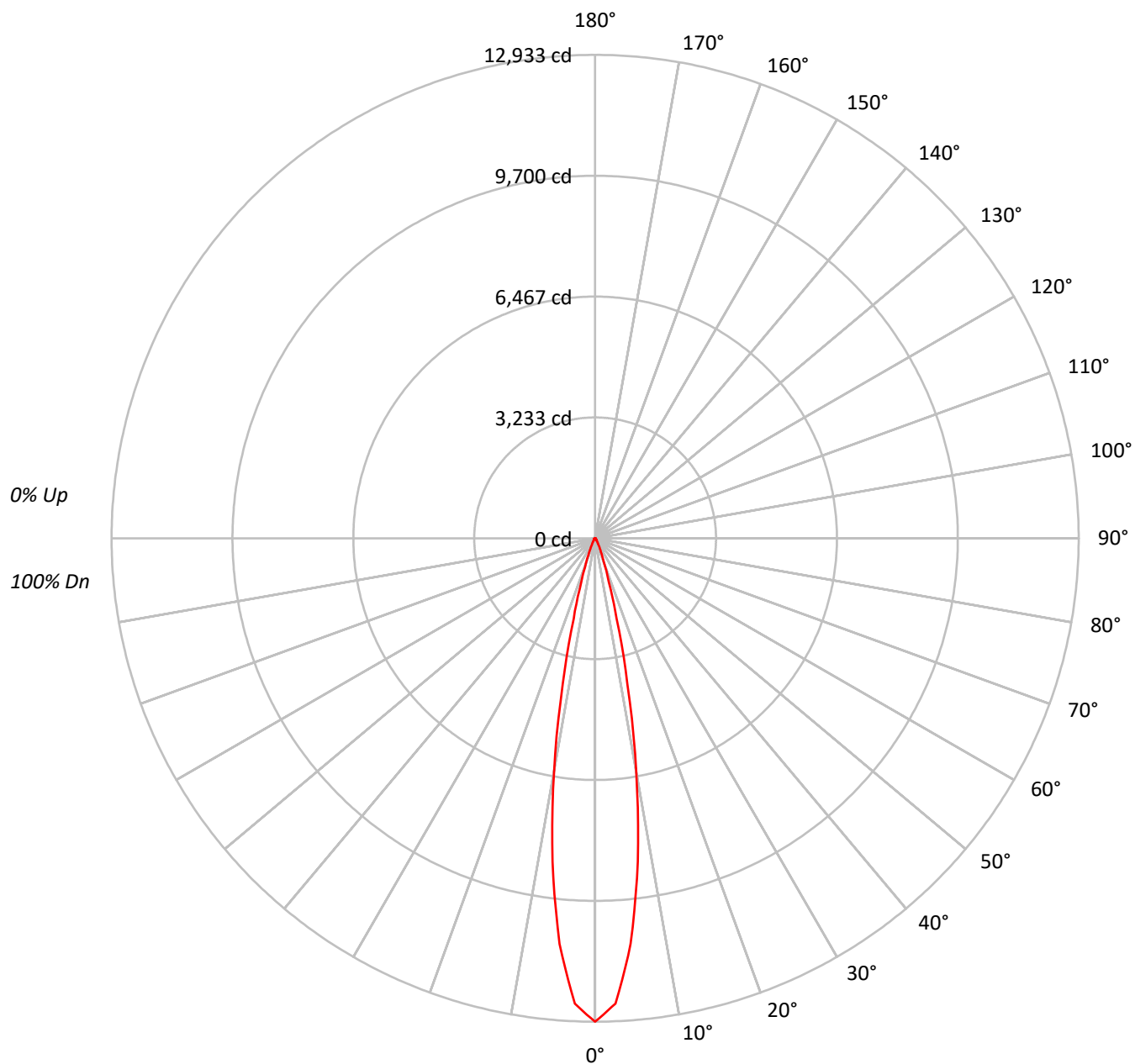
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	110		113	111	109	108		107	106	105		103	102	101		100	99	99
2	112	108	105	103		110	106	104	102		103	101	100		101	99	97		98	97	95
3	108	104	100	98		107	103	99	97		100	98	95		98	96	94		96	94	93
4	105	100	97	94		104	99	96	93		97	94	92		95	93	91		94	92	90
5	103	97	93	90		101	96	93	90		95	92	89		93	91	89		92	90	88
6	100	94	90	88		99	94	90	87		92	89	87		91	88	86		90	88	86
7	98	92	88	85		97	91	88	85		90	87	85		89	86	84		88	86	84
8	96	90	86	83		95	89	86	83		88	85	83		87	85	82		87	84	82
9	94	88	84	81		93	87	84	81		86	83	81		86	83	81		85	82	81
10	92	86	82	80		91	85	82	80		85	82	79		84	81	79		83	81	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6381026
5°	5393625
10°	3168015
15°	1134349
20°	375301
25°	149379
30°	71441
35°	40836
40°	29434
45°	24840
50°	28630
55°	23311
60°	11742
65°	9923
70°	12262
75°	12963
80°	9660
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.7	48.3
10°-20°	695.4	37.6
20°-30°	144.3	7.8
30°-40°	45.5	2.5
40°-50°	29.3	1.6
50°-60°	23.5	1.3
60°-70°	9.3	0.5
70°-80°	6.9	0.4
80°-90°	1.4	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°	1731.5	93.7
0°-40°	1777.0	96.2
0°-60°	1829.8	99.0
0°-90°	1847.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12933	
5°	10890	892
15°	2221	695
25°	274	144
35°	68	46
45°	36	29
55°	27	24
65°	8	9
75°	7	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12933.3
2.5°	12459.0
5°	10890.4
7.5°	8725.6
10°	6323.5
12.5°	3989.3
15°	2220.8
17.5°	1221.3
20°	714.8
22.5°	437.0
25°	274.4
27.5°	181.3
30°	125.4
32.5°	88.1
35°	67.8
37.5°	54.2
40°	45.7
42.5°	39.0
45°	35.6
47.5°	35.6
50°	37.3
52.5°	35.6
55°	27.1
57.5°	18.6
60°	11.9
62.5°	10.2
65°	8.5
67.5°	8.5
70°	8.5
72.5°	8.5
75°	6.8
77.5°	5.1
80°	3.4
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)