

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: P433947

Luminaire Tested: **LAMR4B308R109027DE01021MW**

Issue Date: 11/23/2020

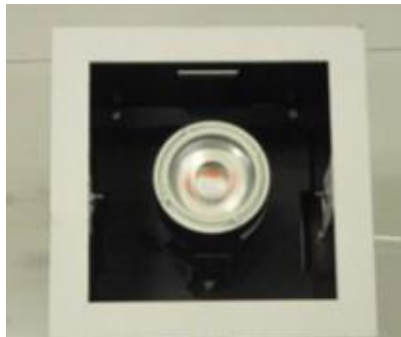
Test Information

Test Method: LM-41-14
Report Number: P433947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B308R109027DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2284.1 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

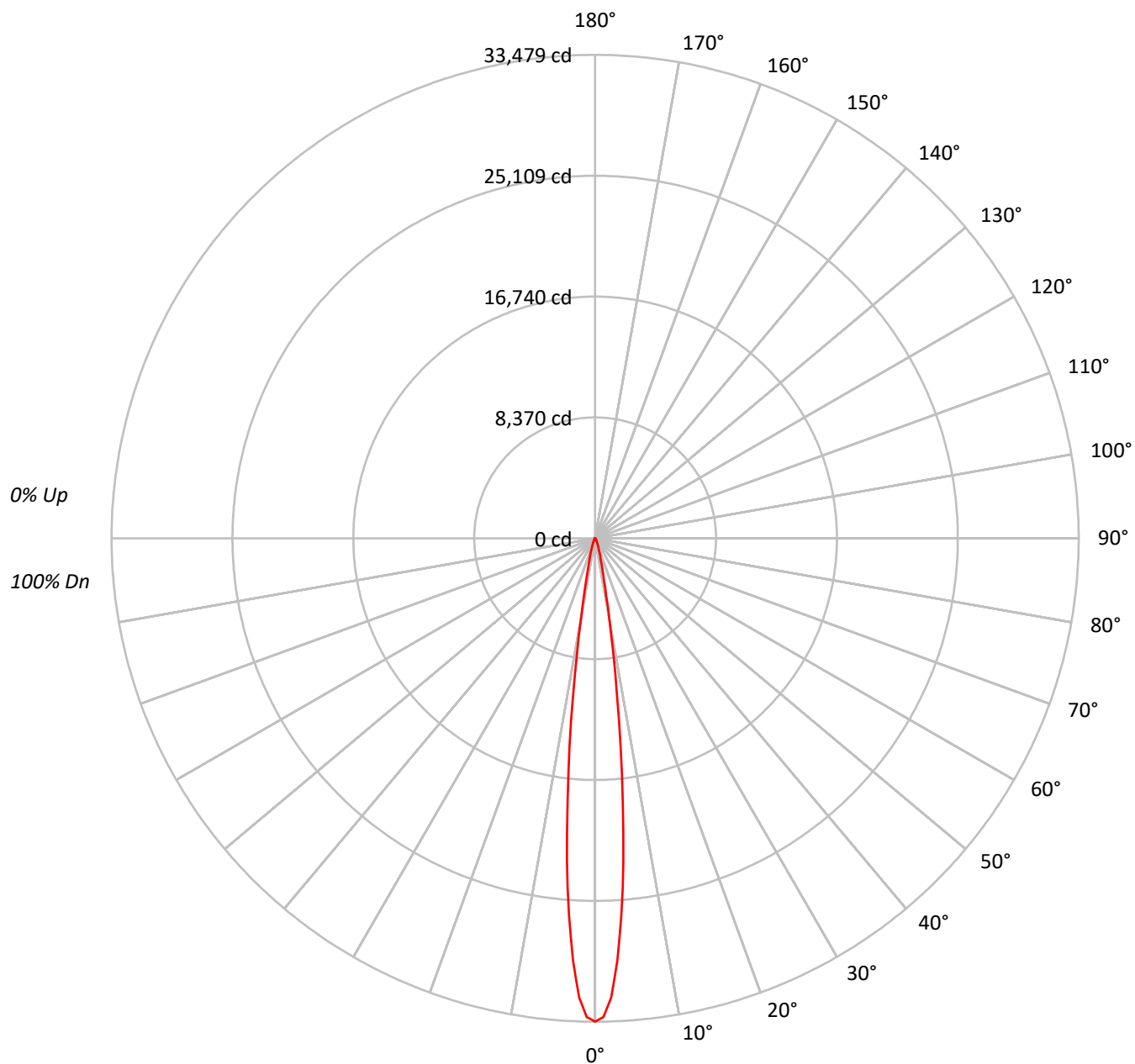
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	99		99
3	110	106	103	101	108	105	102	100	102	100	98		100	98	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		96
6	103	98	95	93	102	98	95	92	97	94	92		95	93	91		94
7	102	97	93	91	101	96	93	91	95	92	90		94	92	90		93
8	100	95	92	89	99	94	91	89	94	91	89		93	90	89		92
9	98	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	88	87		90	88	86		90

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16518051
5°	11095403
10°	2831750
15°	733026
20°	328467
25°	156238
30°	83861
35°	48787
40°	37935
45°	20514
50°	16963
55°	12645
60°	14505
65°	8639
70°	10675
75°	14106
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1539.6	67.4
10°-20°	490.2	21.5
20°-30°	143.2	6.3
30°-40°	54.5	2.4
40°-50°	25.9	1.1
50°-60°	15.6	0.7
60°-70°	8.2	0.4
70°-80°	6.8	0.3
80°-90°	0.0	0.0
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°	2173.0	95.1
0°-40°	2227.5	97.5
0°-60°	2269.0	99.3
0°-90°	2284.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	33479	
5°	22403	###
15°	1435	490
25°	287	143
35°	81	54
45°	29	26
55°	15	16
65°	7	8
75°	7	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	33479.4
1°	33155.6
2°	31816.1
3°	29262.3
4°	26104.9
5°	22403.0
6°	18311.0
7°	14535.5
8°	10855.6
9°	7911.7
10°	5652.3
11°	4003.7
12°	2966.0
13°	2252.1
14°	1788.4
15°	1435.1
17.5°	934.7
20°	625.6
22.5°	419.5
25°	287.0
27.5°	198.7
30°	147.2
32.5°	103.0
35°	81.0
37.5°	66.2
40°	58.9
42.5°	44.2
45°	29.4
47.5°	22.1
50°	22.1
52.5°	22.1
55°	14.7
57.5°	14.7
60°	14.7
62.5°	7.4
65°	7.4
67.5°	7.4
70°	7.4
72.5°	7.4
75°	7.4
77.5°	7.4
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)