

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: P431360

Luminaire Tested: **LAMR4B212R459035DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431360
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: LAMR4B212R459035DE010x1MMS
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: 2485.5 lumens
Efficiency: N/A
Efficacy: 87.5 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

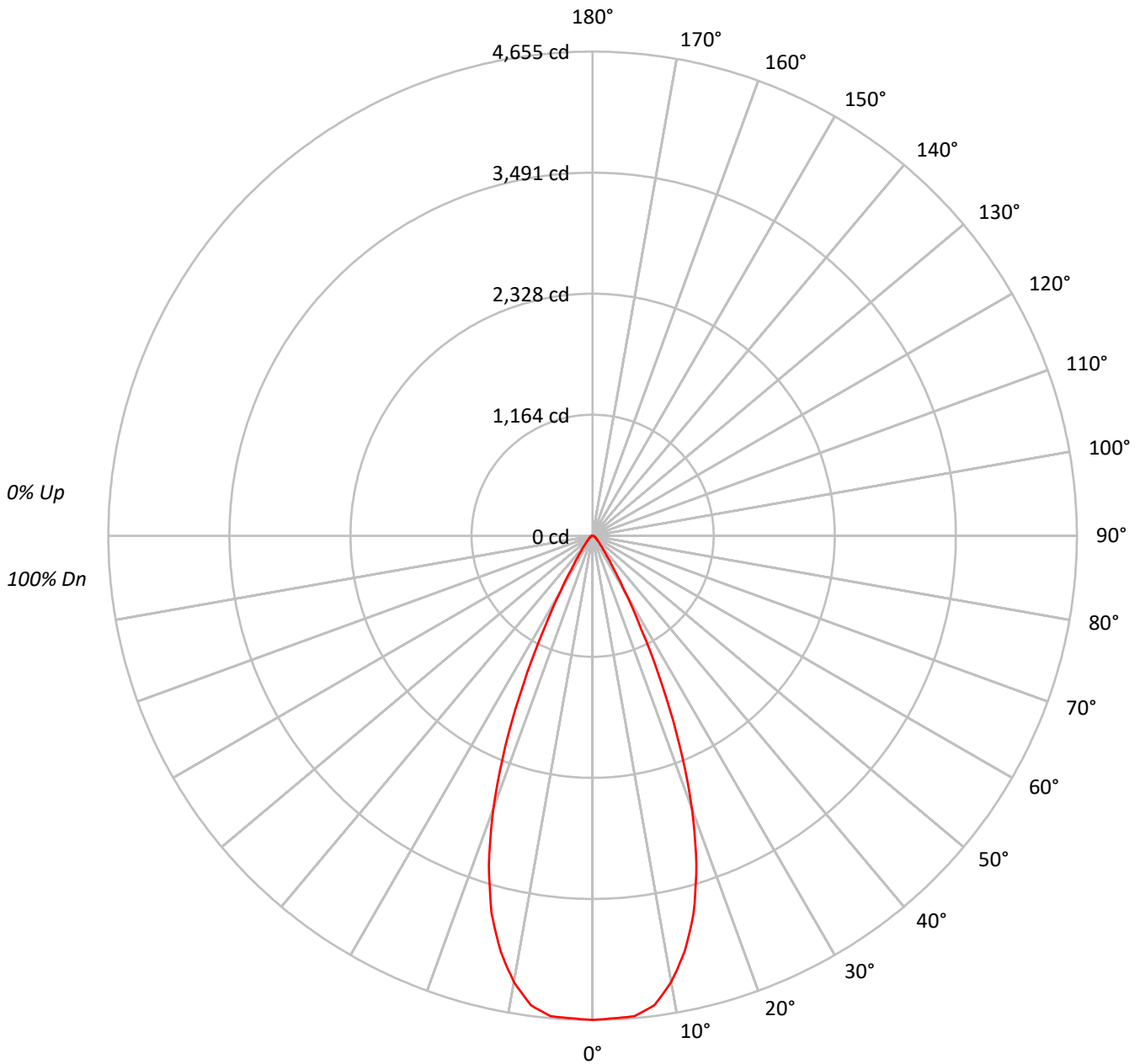
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																			
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85																			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80																			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76																			
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73																			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69																			
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																			
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63																			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2296879
5°	2296094
10°	2182466
15°	1917075
20°	1466552
25°	856153
30°	350426
35°	148167
40°	80765
45°	52191
50°	40758
55°	35267
60°	28517
65°	22532
70°	20917
75°	18300
80°	20457
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.8	17.5
10°-20°	1021.8	41.1
20°-30°	719.9	29.0
30°-40°	177.2	7.1
40°-50°	61.8	2.5
50°-60°	36.6	1.5
60°-70°	20.3	0.8
70°-80°	11.1	0.4
80°-90°	2.9	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°	2175.6	87.5
0°-40°	2352.8	94.7
0°-60°	2451.2	98.6
0°-90°	2485.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4655	
5°	4636	434
15°	3753	1022
25°	1573	720
35°	246	177
45°	75	62
55°	41	37
65°	19	20
75°	10	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4655.4
2.5°	4643.3
5°	4636.1
7.5°	4551.7
10°	4356.3
12.5°	4090.9
15°	3753.2
17.5°	3316.7
20°	2793.2
22.5°	2192.6
25°	1572.7
27.5°	1015.5
30°	615.1
32.5°	373.9
35°	246.0
37.5°	173.7
40°	125.4
42.5°	96.5
45°	74.8
47.5°	62.7
50°	53.1
52.5°	45.8
55°	41.0
57.5°	36.2
60°	28.9
62.5°	24.1
65°	19.3
67.5°	16.9
70°	14.5
72.5°	12.1
75°	9.6
77.5°	9.6
80°	7.2
82.5°	4.8
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)