

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: P431366

Luminaire Tested: **LAMR4B212R459050DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431366
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: LAMR4B212R459050DE010x1MMS
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: 2444.6 lumens
Efficiency: N/A
Efficacy: 86.1 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

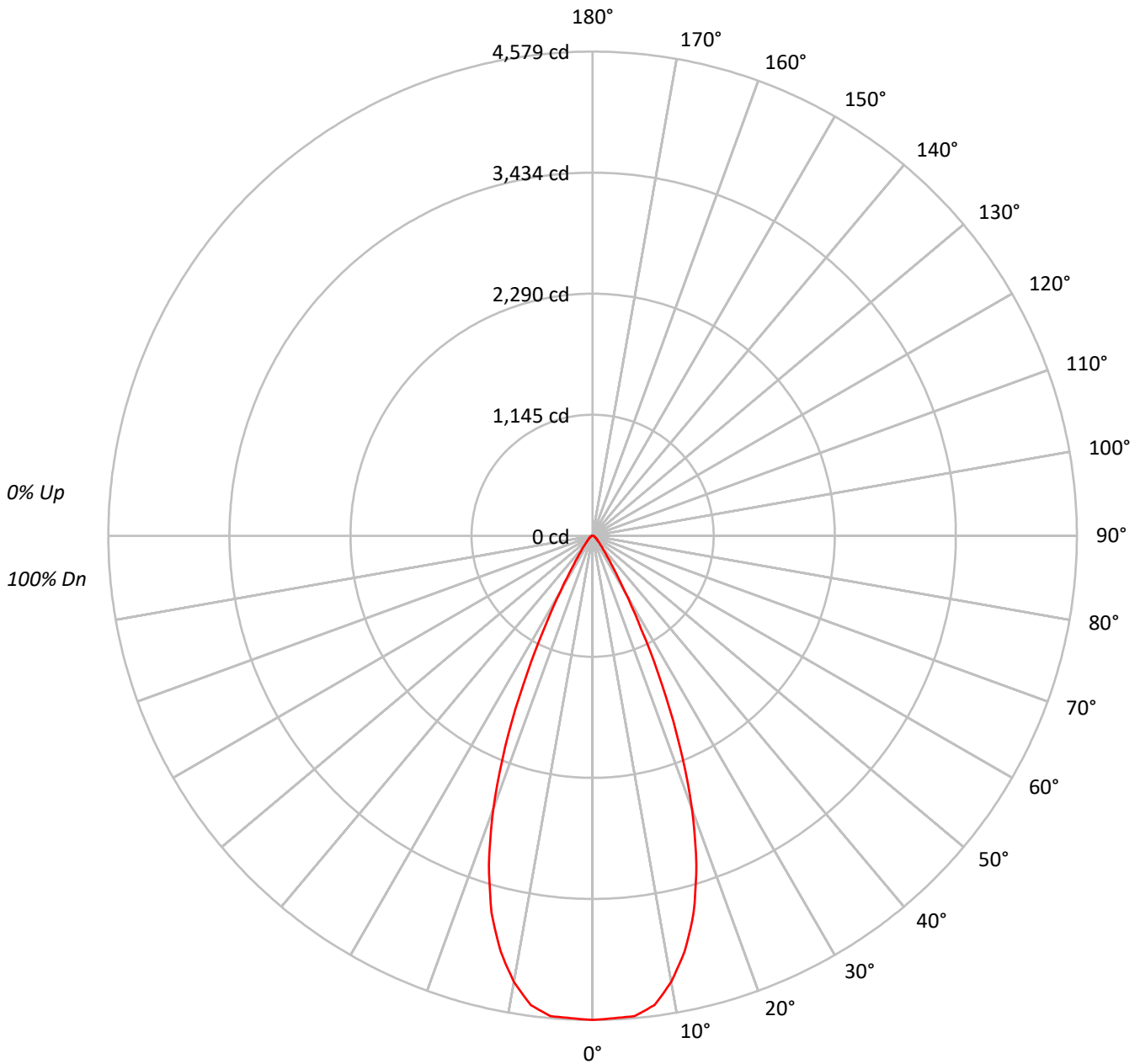
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				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
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°	2258988
5°	2258256
10°	2146495
15°	1885508
20°	1442400
25°	842053
30°	344615
35°	145758
40°	79477
45°	51284
50°	40067
55°	34665
60°	28123
65°	22181
70°	20484
75°	18110
80°	20173
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	17.5
10°-20°	1005.0	41.1
20°-30°	708.1	29.0
30°-40°	174.3	7.1
40°-50°	60.8	2.5
50°-60°	36.0	1.5
60°-70°	19.9	0.8
70°-80°	11.0	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°	2139.7	87.5
0°-40°	2314.0	94.7
0°-60°	2410.8	98.6
0°-90°	2444.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4579	
5°	4560	427
15°	3691	1005
25°	1547	708
35°	242	174
45°	74	61
55°	40	36
65°	19	20
75°	10	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4578.6
2.5°	4566.8
5°	4559.7
7.5°	4476.6
10°	4284.5
12.5°	4023.5
15°	3691.4
17.5°	3262.0
20°	2747.2
22.5°	2156.5
25°	1546.8
27.5°	998.8
30°	604.9
32.5°	367.7
35°	242.0
37.5°	170.8
40°	123.4
42.5°	94.9
45°	73.5
47.5°	61.7
50°	52.2
52.5°	45.1
55°	40.3
57.5°	35.6
60°	28.5
62.5°	23.7
65°	19.0
67.5°	16.6
70°	14.2
72.5°	11.9
75°	9.5
77.5°	9.5
80°	7.1
82.5°	4.7
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)