

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: P430211

Luminaire Tested: **LAM4B212R459040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P430211
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: LAM4B212R459040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.9 lumens
Efficiency: N/A
Efficacy: 88.5 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

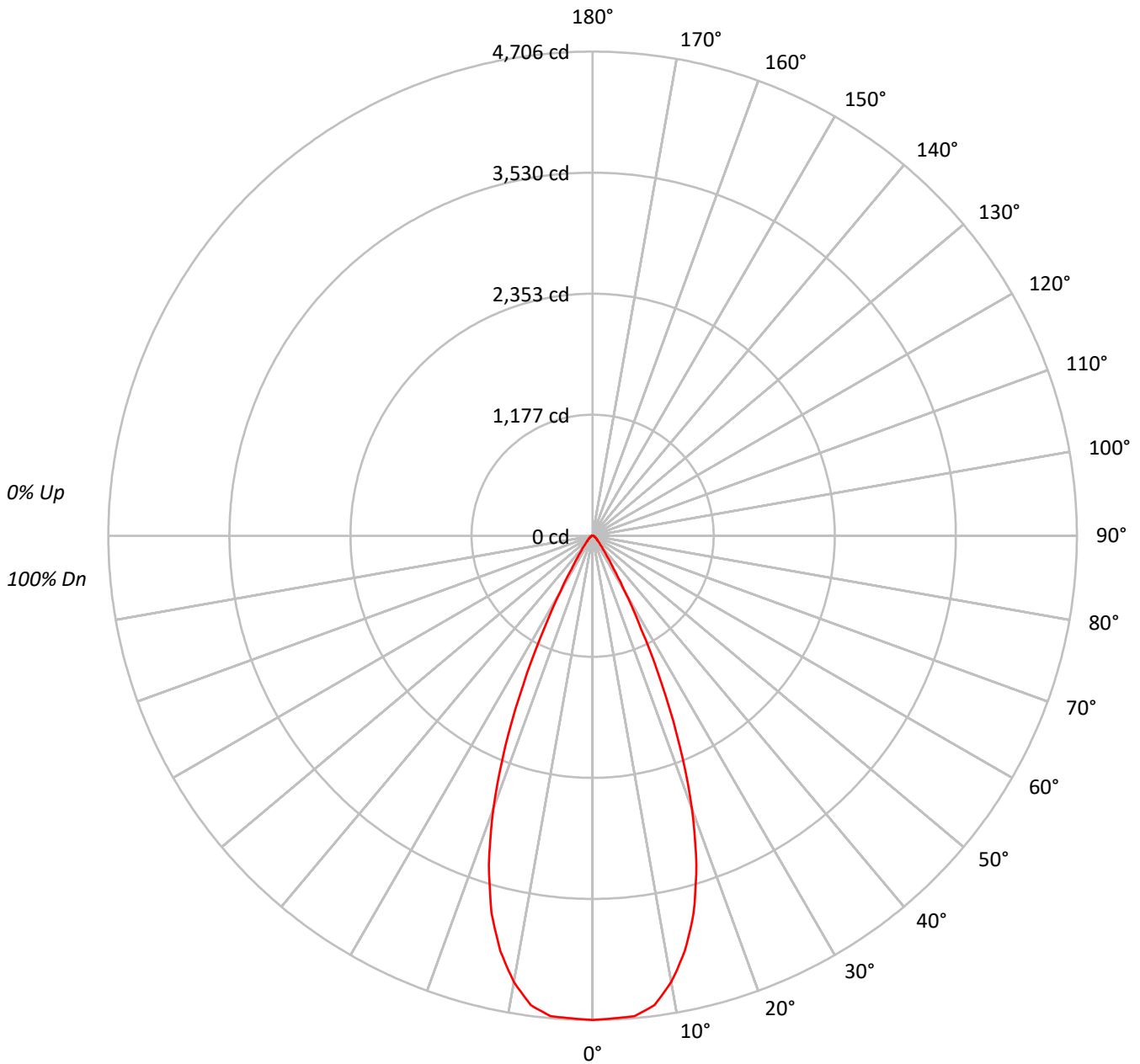
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	2322091
5°	2321303
10°	2206413
15°	1938170
20°	1482670
25°	865571
30°	354243
35°	149793
40°	81667
45°	52749
50°	41141
55°	35698
60°	28912
65°	22765
70°	21061
75°	18681
80°	20741
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	17.5
10°-20°	1033.0	41.1
20°-30°	727.9	29.0
30°-40°	179.1	7.1
40°-50°	62.5	2.5
50°-60°	37.0	1.5
60°-70°	20.5	0.8
70°-80°	11.3	0.4
80°-90°	3.0	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°	2199.5	87.5
0°-40°	2378.6	94.7
0°-60°	2478.1	98.6
0°-90°	2512.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4706	
5°	4687	439
15°	3794	1033
25°	1590	728
35°	249	179
45°	76	62
55°	42	37
65°	20	20
75°	10	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4706.5
2.5°	4694.3
5°	4687.0
7.5°	4601.7
10°	4404.1
12.5°	4135.9
15°	3794.5
17.5°	3353.1
20°	2823.9
22.5°	2216.7
25°	1590.0
27.5°	1026.7
30°	621.8
32.5°	378.0
35°	248.7
37.5°	175.6
40°	126.8
42.5°	97.5
45°	75.6
47.5°	63.4
50°	53.6
52.5°	46.3
55°	41.5
57.5°	36.6
60°	29.3
62.5°	24.4
65°	19.5
67.5°	17.1
70°	14.6
72.5°	12.2
75°	9.8
77.5°	9.8
80°	7.3
82.5°	4.9
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)