

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: P431809

Luminaire Tested: **LAMR4B412R209027DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431809
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: LAMR4B412R209027DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5279.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

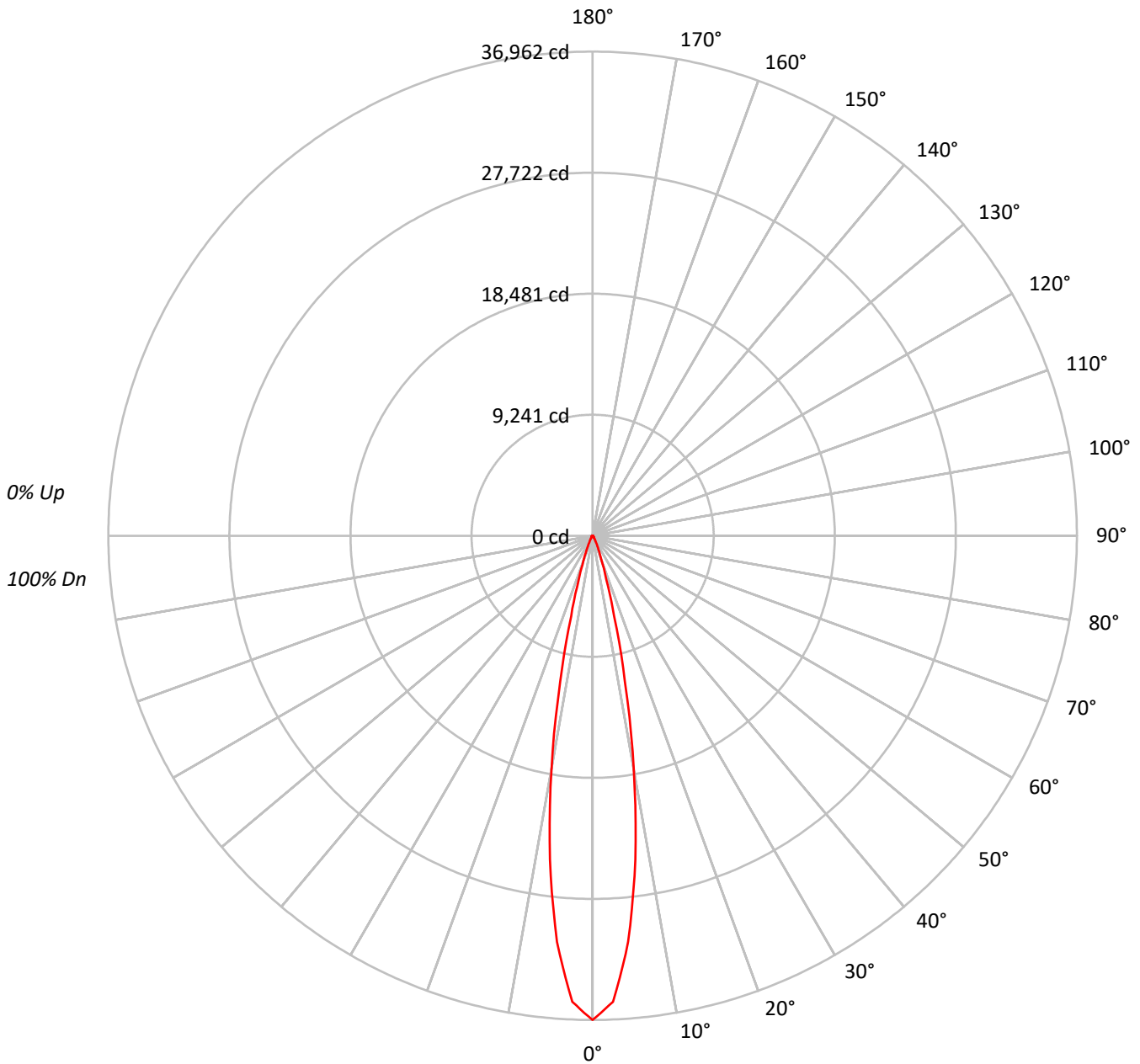
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	89
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18236542
5°	15414652
10°	9054005
15°	3241844
20°	1072664
25°	426960
30°	204069
35°	116606
40°	84179
45°	70961
50°	81745
55°	66664
60°	33451
65°	28252
70°	34910
75°	36982
80°	27560
85°	27172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2548.5	48.3
10°-20°	1987.4	37.6
20°-30°	412.5	7.8
30°-40°	130.0	2.5
40°-50°	83.7	1.6
50°-60°	67.2	1.3
60°-70°	26.4	0.5
70°-80°	19.8	0.4
80°-90°	3.9	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°	4948.5	93.7
0°-40°	5078.5	96.2
0°-60°	5229.4	99.1
0°-90°	5279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5279.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	36962	
5°	31124	###
15°	6347	1987
25°	784	413
35°	194	130
45°	102	84
55°	78	67
65°	24	26
75°	19	20
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	36962.5
2.5°	35607.0
5°	31124.1
7.5°	24937.0
10°	18072.2
12.5°	11401.0
15°	6346.8
17.5°	3490.5
20°	2043.0
22.5°	1249.0
25°	784.3
27.5°	518.0
30°	358.2
32.5°	251.7
35°	193.6
37.5°	154.9
40°	130.7
42.5°	111.3
45°	101.7
47.5°	101.7
50°	106.5
52.5°	101.7
55°	77.5
57.5°	53.3
60°	33.9
62.5°	29.0
65°	24.2
67.5°	24.2
70°	24.2
72.5°	24.2
75°	19.4
77.5°	14.5
80°	9.7
82.5°	4.8
85°	4.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)