

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: P430903

Luminaire Tested: **LAM4B412R709035DE01021MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B412R709035DE01021MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5789.9 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

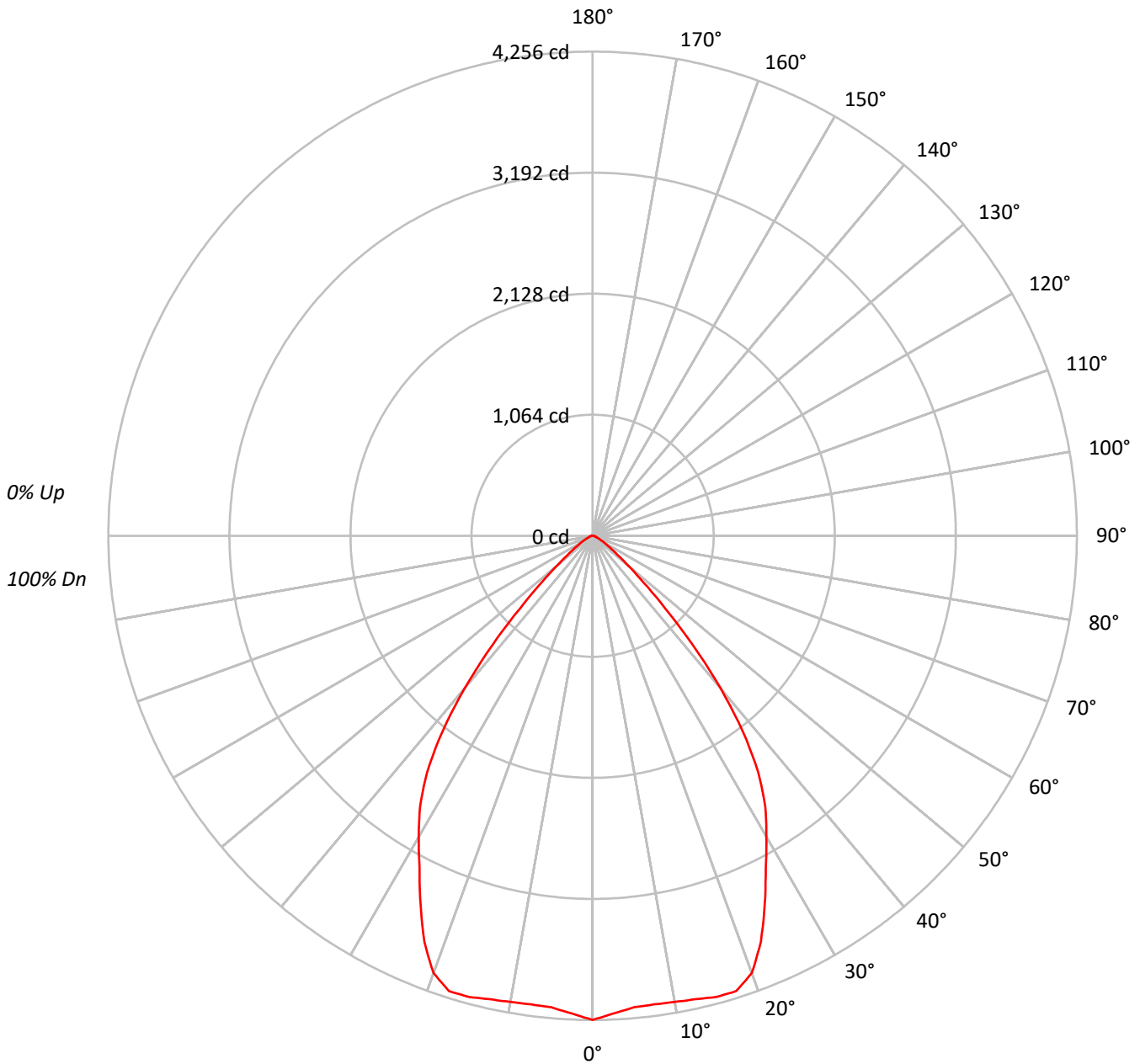
Input Watts (W): 54.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58																			
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54																			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																			
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2099725
5°	2060646
10°	2084472
15°	2143454
20°	2147113
25°	1947915
30°	1740508
35°	1528651
40°	1125497
45°	630412
50°	310249
55°	173843
60°	105583
65°	69346
70°	51499
75°	45369
80°	33811
85°	33399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.7	6.9
10°-20°	1182.5	20.4
20°-30°	1640.9	28.3
30°-40°	1543.8	26.7
40°-50°	737.0	12.7
50°-60°	194.9	3.4
60°-70°	61.5	1.1
70°-80°	25.1	0.4
80°-90°	6.5	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°	3221.1	55.6
0°-40°	4765.0	82.3
0°-60°	5696.8	98.4
0°-90°	5789.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5789.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4256	
5°	4161	398
15°	4196	1182
25°	3578	1641
35°	2538	1544
45°	904	737
55°	202	195
65°	59	61
75°	24	25
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4255.8
2.5°	4202.3
5°	4160.7
7.5°	4154.8
10°	4160.7
12.5°	4172.6
15°	4196.4
17.5°	4196.4
20°	4089.4
22.5°	3863.5
25°	3578.2
27.5°	3292.9
30°	3055.1
32.5°	2823.3
35°	2538.0
37.5°	2169.5
40°	1747.5
42.5°	1301.7
45°	903.5
47.5°	600.3
50°	404.2
52.5°	279.4
55°	202.1
57.5°	142.7
60°	107.0
62.5°	77.3
65°	59.4
67.5°	41.6
70°	35.7
72.5°	29.7
75°	23.8
77.5°	17.8
80°	11.9
82.5°	11.9
85°	5.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)