

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: P430513

Luminaire Tested: **LAM4B312R509027DE01021MB**

Issue Date: 11/23/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P430513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-8)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 11/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LAM4B312R509027DE01021MB  
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 50 DEG TIR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3632.7 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.74  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct

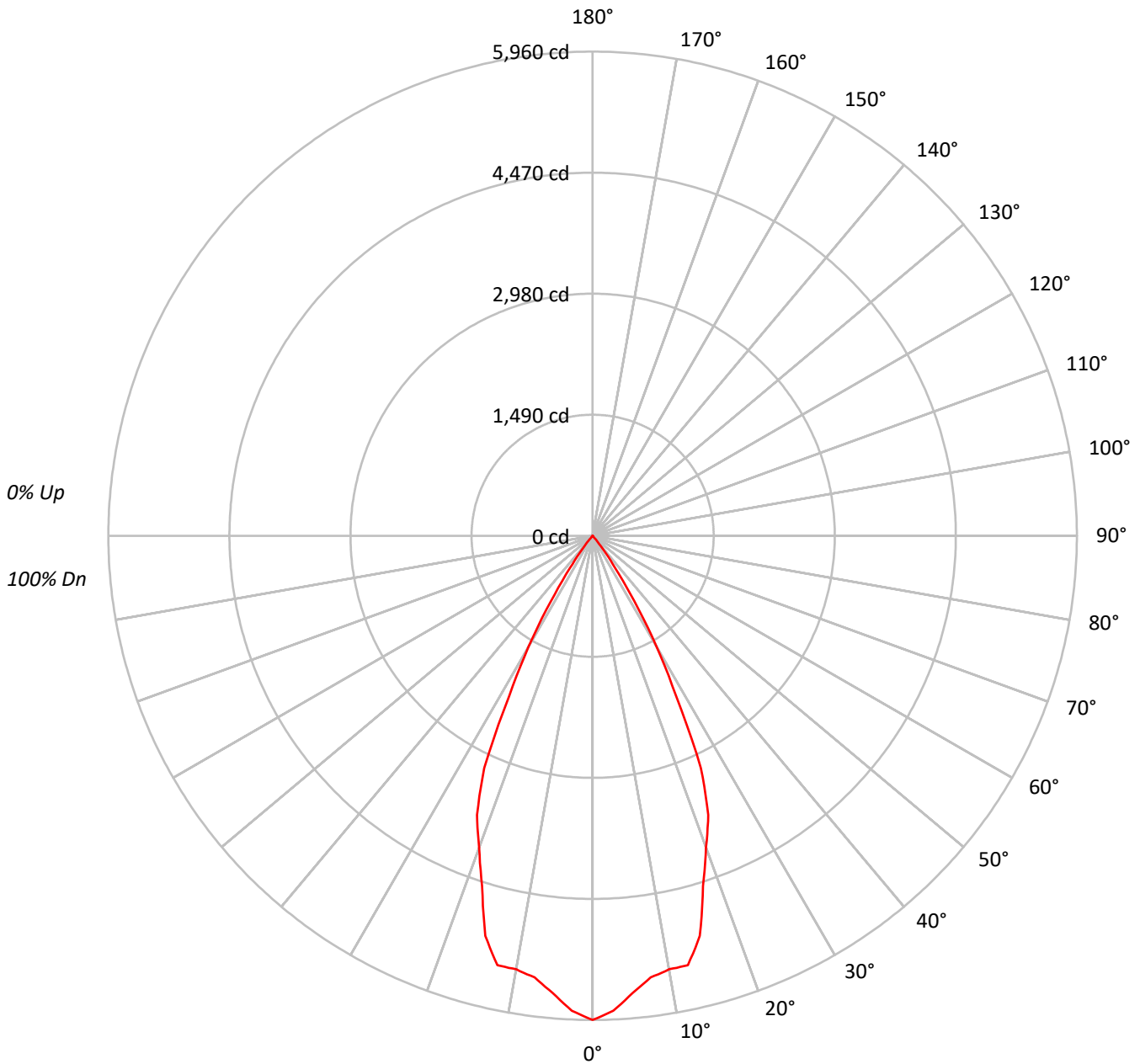
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																																				
2	110	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90																																				
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85																																				
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81																																				
5	96	89	84	80	95	88	84	80	87	83	79	85	81	79	84	80	78	77																																				
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	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	76	71	68	75	71	68	74	70	67	73	70	67	66																																				
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63																																				
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	68	64	61	60																																				

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

	0°
0°	960114
5°	913422
10°	886571
15°	850663
20°	699848
25°	560739
30°	292527
35°	94343
40°	16025
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.9	14.6
10°-20°	1380.3	38.0
20°-30°	1342.8	37.0
30°-40°	369.6	10.2
40°-50°	8.1	0.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	3255.0	89.6
0°-40°	3624.6	99.8
0°-60°	3632.7	100.0
0°-90°	3632.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5960	
5°	5648	532
15°	5100	1380
25°	3154	1343
35°	480	370
45°	0	8
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5959.6
2.5°	5853.1
5°	5648.2
7.5°	5483.1
10°	5419.5
12.5°	5414.8
15°	5100.3
17.5°	4520.5
20°	4082.1
22.5°	3718.4
25°	3154.5
27.5°	2220.5
30°	1572.5
32.5°	951.4
35°	479.7
37.5°	214.4
40°	76.2
42.5°	6.4
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)