

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: P432815

Luminaire Tested: **LAM4B308R359024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R359024DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2118.7 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

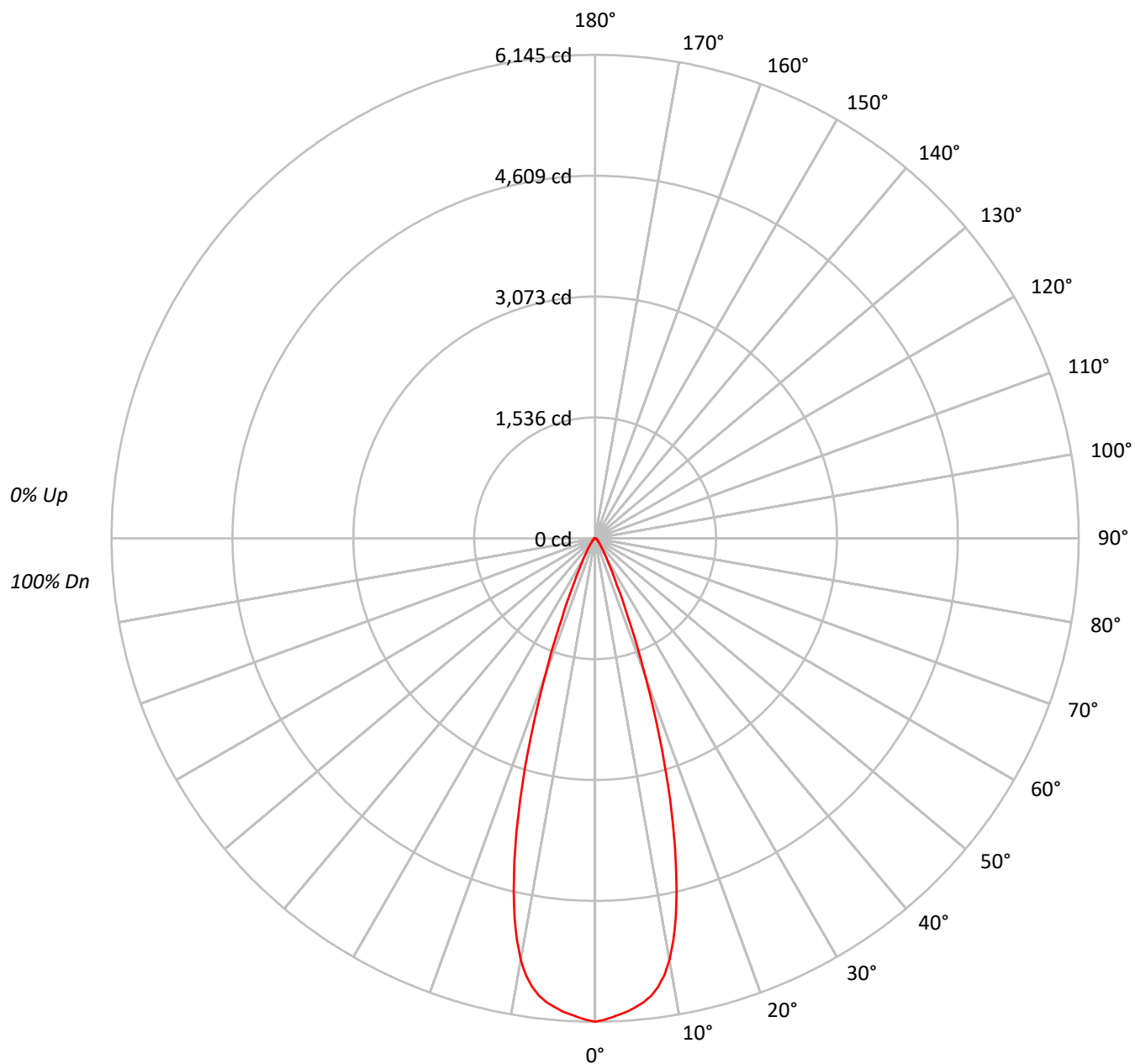
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3031965
5°	2962076
10°	2725840
15°	1970145
20°	973273
25°	357062
30°	160999
35°	87635
40°	54359
45°	36771
50°	27555
55°	23569
60°	20821
65°	19730
70°	18320
75°	16013
80°	17900
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.7	26.2
10°-20°	1015.6	47.9
20°-30°	353.6	16.7
30°-40°	98.0	4.6
40°-50°	42.6	2.0
50°-60°	24.7	1.2
60°-70°	16.7	0.8
70°-80°	9.1	0.4
80°-90°	2.6	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°	1925.0	90.9
0°-40°	2023.0	95.5
0°-60°	2090.3	98.7
0°-90°	2118.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6145	
5°	5981	556
15°	3857	1016
25°	656	354
35°	146	98
45°	53	43
55°	27	25
65°	17	17
75°	8	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6145.3
1°	6124.2
2°	6092.5
3°	6060.9
4°	6025.1
5°	5980.8
6°	5925.9
7°	5858.5
8°	5755.1
9°	5622.3
10°	5440.9
11°	5208.9
12°	4928.4
13°	4599.5
14°	4238.8
15°	3857.1
16°	3450.1
17°	3041.0
18°	2629.8
19°	2233.3
20°	1853.7
22.5°	1105.1
25°	655.9
26°	546.2
27°	455.5
28°	385.9
29°	329.0
30°	282.6
32.5°	200.3
35°	145.5
37.5°	109.7
40°	84.4
42.5°	65.4
45°	52.7
47.5°	44.3
50°	35.9
52.5°	31.6
55°	27.4
57.5°	23.2
60°	21.1
62.5°	19.0
65°	16.9
67.5°	14.8



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CANDELA DISTRIBUTION (continued):

	0°
75°	8.4
77.5°	6.3
80°	6.3
82.5°	4.2
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°	12.7
72.5°	10.5



(END OF REPORT)