

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: P432818

Luminaire Tested: **LAM4B308R359027DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432818
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: LAM4B308R359027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2310.9 lumens
Efficiency: N/A
Efficacy: 72.4 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

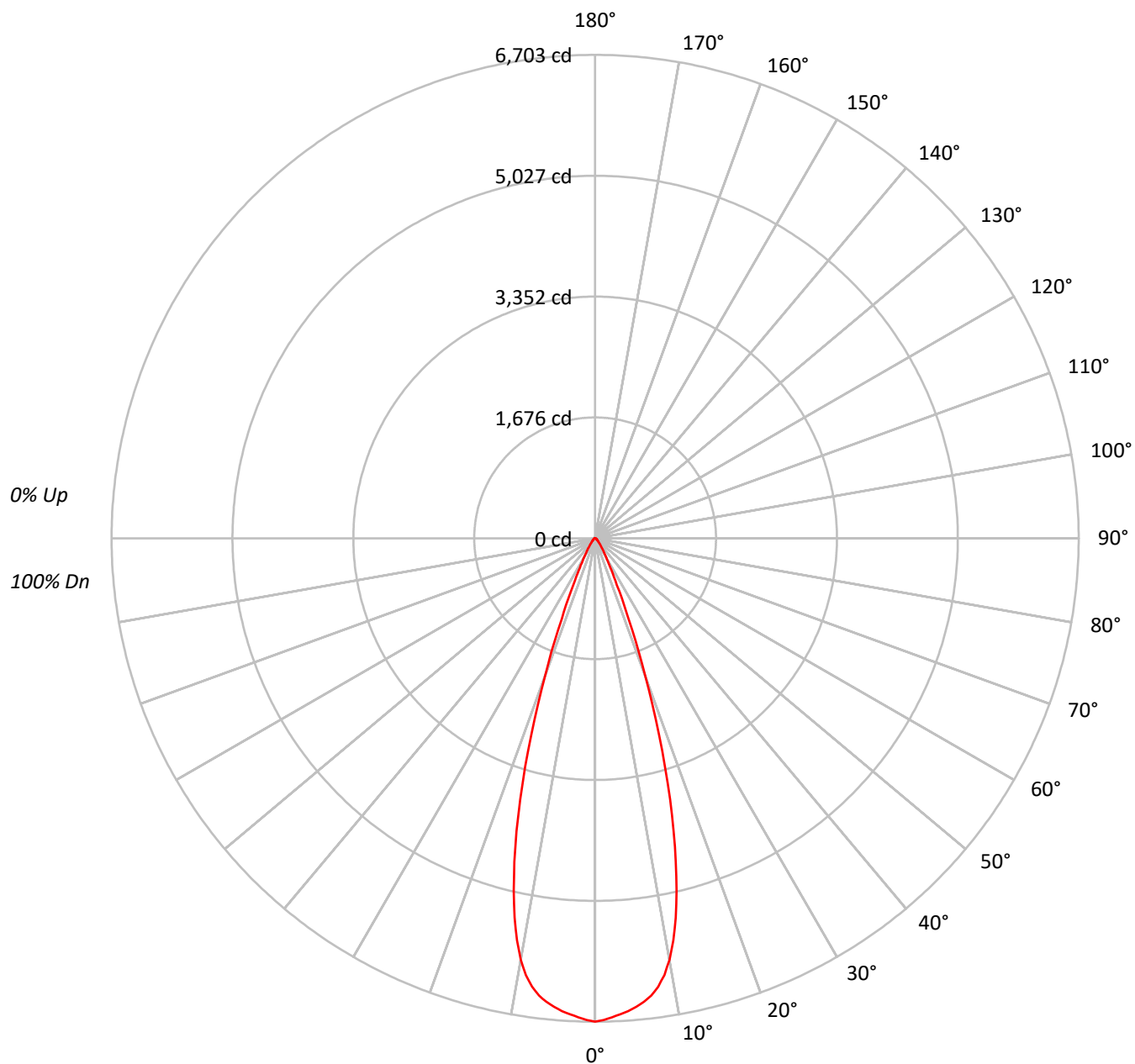
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	105	103		102	101	100		99	98	97
2	110	106	103	100		108	104	101	99		101	99	97		98	96	95		96	94	93
3	106	101	97	94		104	100	96	93		97	94	92		95	92	90		93	91	89
4	102	96	92	89		101	95	91	88		93	90	87		91	88	86		90	87	85
5	99	92	88	84		97	91	87	84		90	86	83		88	85	83		87	84	82
6	96	89	84	81		94	88	84	80		87	83	80		85	82	79		84	81	79
7	92	85	81	77		91	85	80	77		84	80	77		82	79	76		81	78	76
8	90	82	78	74		88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72		86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69		83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3306926
5°	3230707
10°	2973079
15°	2148869
20°	1061533
25°	389398
30°	175583
35°	95586
40°	59254
45°	40120
50°	30012
55°	25719
60°	22695
65°	21481
70°	19907
75°	17538
80°	19605
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.1	26.2
10°-20°	1107.8	47.9
20°-30°	385.7	16.7
30°-40°	106.9	4.6
40°-50°	46.4	2.0
50°-60°	26.9	1.2
60°-70°	18.2	0.8
70°-80°	10.0	0.4
80°-90°	2.8	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°	2099.6	90.9
0°-40°	2206.4	95.5
0°-60°	2279.8	98.7
0°-90°	2310.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6703	
5°	6523	606
15°	4207	1108
25°	715	386
35°	159	107
45°	58	46
55°	30	27
65°	18	18
75°	9	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6702.6
1°	6679.6
2°	6645.1
3°	6610.6
4°	6571.5
5°	6523.2
6°	6463.4
7°	6389.8
8°	6277.1
9°	6132.2
10°	5934.4
11°	5681.4
12°	5375.4
13°	5016.6
14°	4623.3
15°	4207.0
16°	3763.0
17°	3316.8
18°	2868.3
19°	2435.9
20°	2021.8
22.5°	1205.3
25°	715.3
26°	595.7
27°	496.8
28°	420.9
29°	358.8
30°	308.2
32.5°	218.5
35°	158.7
37.5°	119.6
40°	92.0
42.5°	71.3
45°	57.5
47.5°	48.3
50°	39.1
52.5°	34.5
55°	29.9
57.5°	25.3
60°	23.0
62.5°	20.7
65°	18.4
67.5°	16.1



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CANDELA DISTRIBUTION (continued):

	0°
75°	9.2
77.5°	6.9
80°	6.9
82.5°	4.6
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







70°	13.8
72.5°	11.5



(END OF REPORT)