

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: P432821

Luminaire Tested: **LAM4B308R359030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432821
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: LAM4B308R359030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2376.8 lumens
Efficiency: N/A
Efficacy: 74.5 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

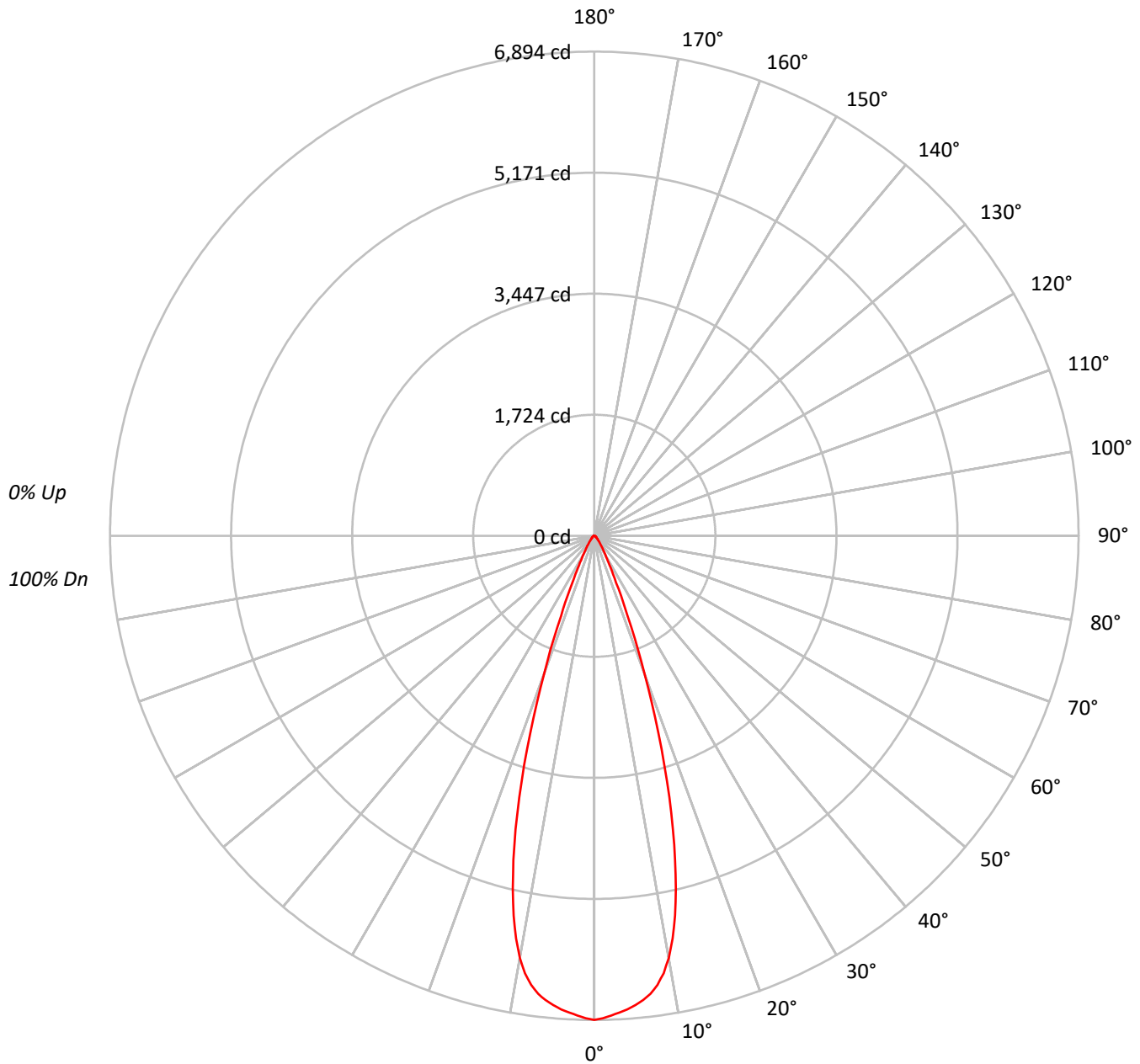
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3401260
5°	3322876
10°	3057847
15°	2210163
20°	1091828
25°	400503
30°	180597
35°	98296
40°	60928
45°	41237
50°	30856
55°	26494
60°	23386
65°	22065
70°	20484
75°	18110
80°	20173
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.4	26.2
10°-20°	1139.4	47.9
20°-30°	396.7	16.7
30°-40°	109.9	4.6
40°-50°	47.8	2.0
50°-60°	27.7	1.2
60°-70°	18.7	0.8
70°-80°	10.3	0.4
80°-90°	2.9	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°	2159.5	90.9
0°-40°	2269.4	95.5
0°-60°	2344.9	98.7
0°-90°	2376.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6894	
5°	6709	623
15°	4327	1139
25°	736	397
35°	163	110
45°	59	48
55°	31	28
65°	19	19
75°	10	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6893.8
1°	6870.1
2°	6834.7
3°	6799.2
4°	6758.9
5°	6709.3
6°	6647.8
7°	6572.1
8°	6456.1
9°	6307.1
10°	6103.6
11°	5843.4
12°	5528.8
13°	5159.7
14°	4755.2
15°	4327.0
16°	3870.4
17°	3411.4
18°	2950.1
19°	2505.3
20°	2079.5
22.5°	1239.7
25°	735.7
26°	612.7
27°	511.0
28°	432.9
29°	369.1
30°	317.0
32.5°	224.7
35°	163.2
37.5°	123.0
40°	94.6
42.5°	73.3
45°	59.1
47.5°	49.7
50°	40.2
52.5°	35.5
55°	30.8
57.5°	26.0
60°	23.7
62.5°	21.3
65°	18.9
67.5°	16.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	9.5
77.5°	7.1
80°	7.1
82.5°	4.7
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







70°	14.2
72.5°	11.8



(END OF REPORT)