

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: P432882

Luminaire Tested: **LAM4B308R459727DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R459727DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2070.5 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

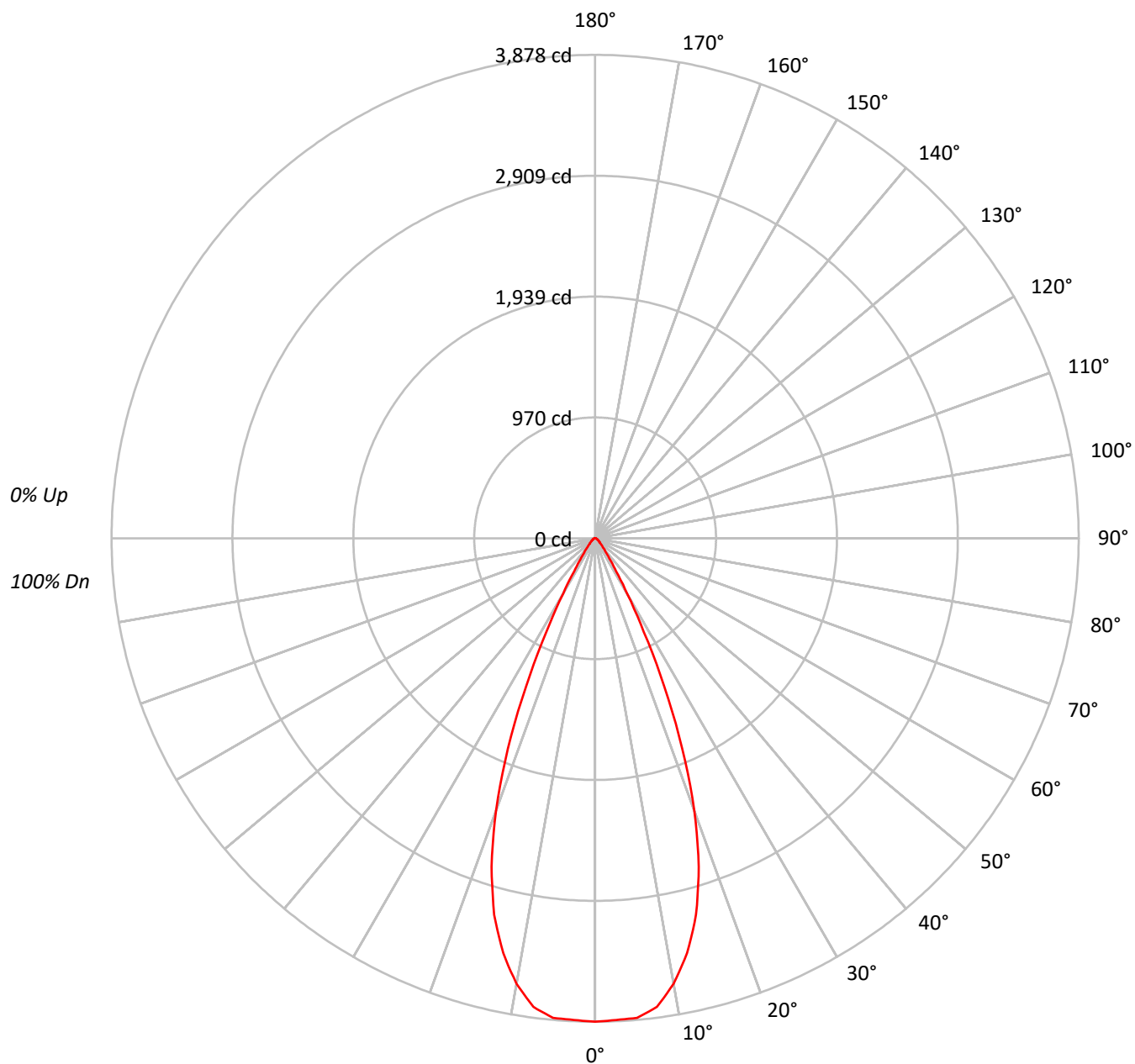
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	74	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	71	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	67	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	65	65	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1913375
5°	1912710
10°	1818045
15°	1597018
20°	1221671
25°	713198
30°	291917
35°	123473
40°	67304
45°	43469
50°	33926
55°	29418
60°	23781
65°	18796
70°	17455
75°	15250
80°	17048
85°	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	17.5
10°-20°	851.2	41.1
20°-30°	599.7	29.0
30°-40°	147.6	7.1
40°-50°	51.5	2.5
50°-60°	30.5	1.5
60°-70°	16.9	0.8
70°-80°	9.2	0.4
80°-90°	2.4	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°	1812.3	87.5
0°-40°	1960.0	94.7
0°-60°	2042.0	98.6
0°-90°	2070.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3878	
5°	3862	361
15°	3127	851
25°	1310	600
35°	205	148
45°	62	52
55°	34	30
65°	16	17
75°	8	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3878.1
2.5°	3868.0
5°	3862.0
7.5°	3791.7
10°	3628.9
12.5°	3407.9
15°	3126.6
17.5°	2762.9
20°	2326.8
22.5°	1826.5
25°	1310.1
27.5°	845.9
30°	512.4
32.5°	311.5
35°	205.0
37.5°	144.7
40°	104.5
42.5°	80.4
45°	62.3
47.5°	52.2
50°	44.2
52.5°	38.2
55°	34.2
57.5°	30.1
60°	24.1
62.5°	20.1
65°	16.1
67.5°	14.1
70°	12.1
72.5°	10.0
75°	8.0
77.5°	8.0
80°	6.0
82.5°	4.0
85°	2.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)