

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: P433127

Luminaire Tested: **LAM4B408R359024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433127
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: LAM4B408R359024DE01021MMS
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: 2812.3 lumens
Efficiency: N/A
Efficacy: 68.3 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

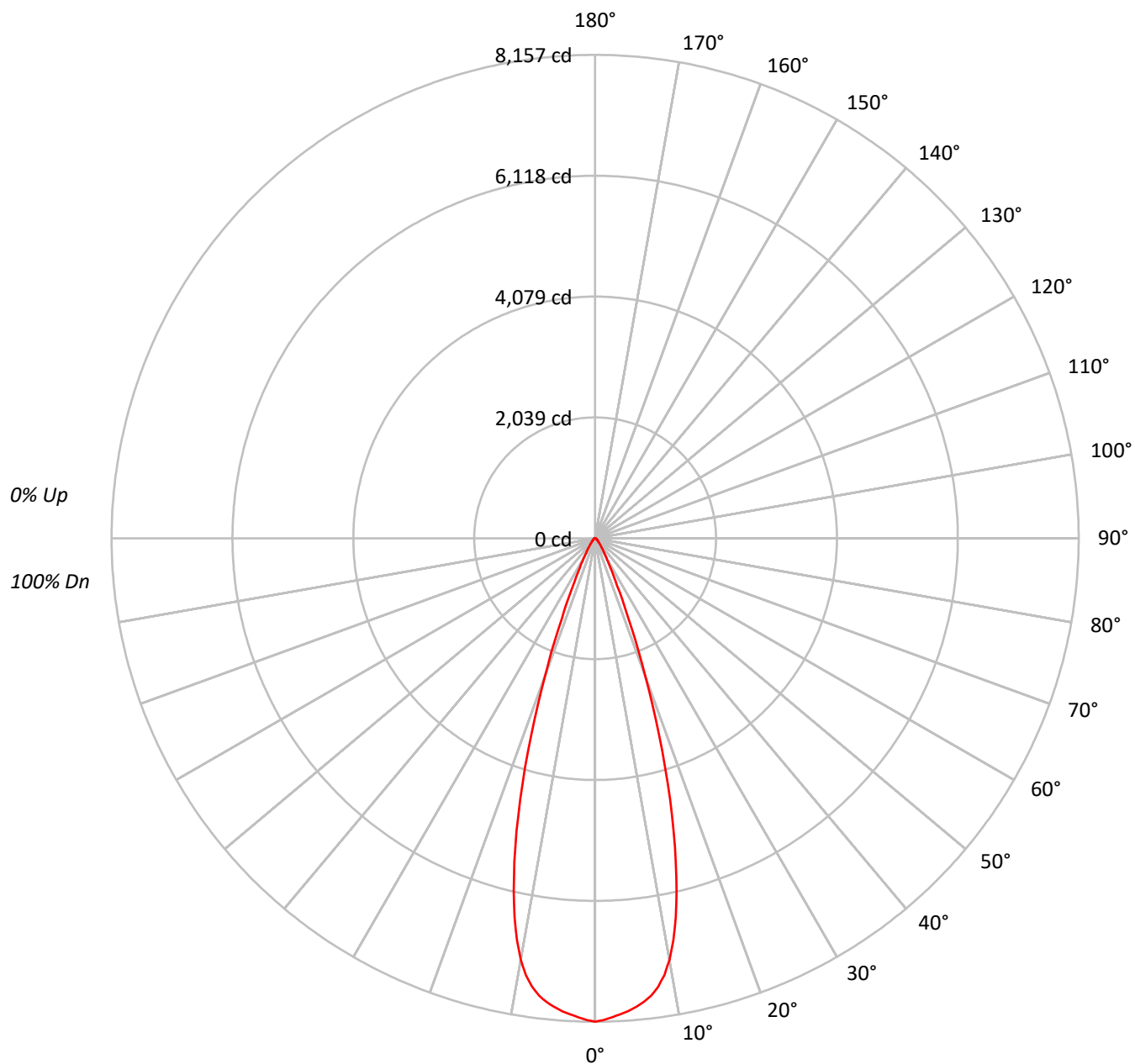
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4024497
5°	3931754
10°	3618205
15°	2615112
20°	1291870
25°	473941
30°	213697
35°	116305
40°	72135
45°	48842
50°	36536
55°	31311
60°	27629
65°	26151
70°	24235
75°	21350
80°	23867
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.7	26.2
10°-20°	1348.1	47.9
20°-30°	469.4	16.7
30°-40°	130.1	4.6
40°-50°	56.5	2.0
50°-60°	32.8	1.2
60°-70°	22.2	0.8
70°-80°	12.2	0.4
80°-90°	3.4	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°	2555.1	90.9
0°-40°	2685.2	95.5
0°-60°	2774.6	98.7
0°-90°	2812.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8157	
5°	7939	738
15°	5120	1348
25°	871	469
35°	193	130
45°	70	57
55°	36	33
65°	22	22
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8157.0
1°	8129.0
2°	8087.0
3°	8045.0
4°	7997.5
5°	7938.7
6°	7865.9
7°	7776.3
8°	7639.1
9°	7462.8
10°	7222.1
11°	6914.1
12°	6541.8
13°	6105.2
14°	5626.5
15°	5119.8
16°	4579.6
17°	4036.5
18°	3490.7
19°	2964.4
20°	2460.5
22.5°	1466.8
25°	870.6
26°	725.0
27°	604.6
28°	512.3
29°	436.7
30°	375.1
32.5°	265.9
35°	193.1
37.5°	145.6
40°	112.0
42.5°	86.8
45°	70.0
47.5°	58.8
50°	47.6
52.5°	42.0
55°	36.4
57.5°	30.8
60°	28.0
62.5°	25.2
65°	22.4
67.5°	19.6



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CANDELA DISTRIBUTION (continued):

	0°
75°	11.2
77.5°	8.4
80°	8.4
82.5°	5.6
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







70°	16.8
72.5°	14.0



(END OF REPORT)