

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: P433152

Luminaire Tested: **LAM4B408R409024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-7)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R409024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 40 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.8 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.6
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

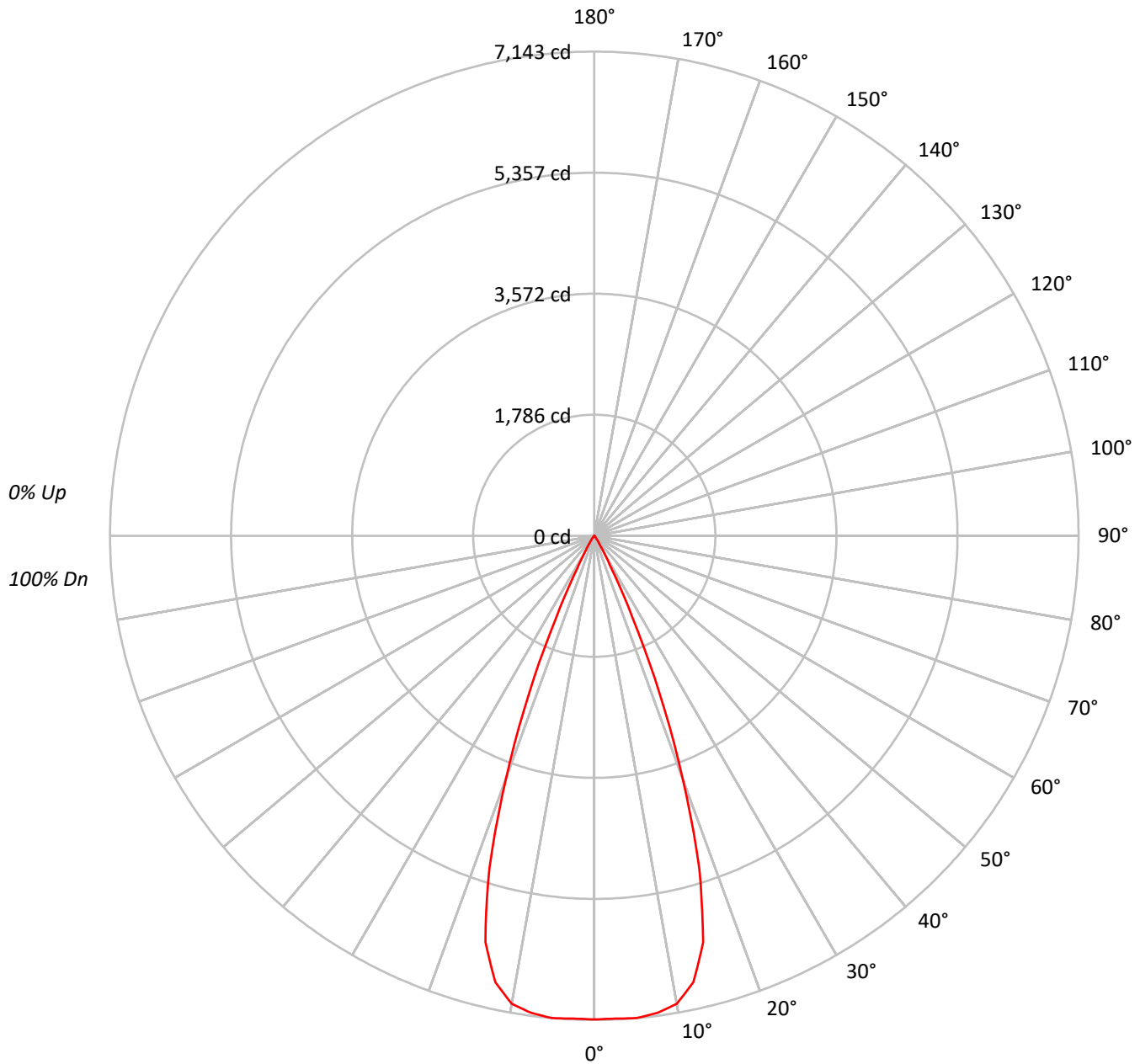
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	109	112	110	109	107		106	105	104			103	102	101			99
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			97
3	107	102	98	95	105	101	97	94		98	95	93			96	94	92			94
4	103	98	93	90	102	97	93	90		95	91	89			93	90	88			91
5	100	94	89	86	98	93	89	86		91	88	85			90	87	84			88
6	97	90	85	82	95	89	85	82		88	84	82			87	83	81			85
7	93	87	82	79	92	86	82	79		85	81	78			84	80	78			83
8	91	83	79	76	90	83	79	76		82	78	75			81	78	75			80
9	88	81	76	73	87	80	76	73		79	75	73			79	75	73			78
10	85	78	73	71	84	77	73	70		77	73	70			76	73	70			75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1149379
5°	1155225
10°	1147038
15°	1034796
20°	652872
25°	235139
30°	49260
35°	14986
40°	2986
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.4	22.2
10°-20°	1619.8	53.1
20°-30°	690.7	22.7
30°-40°	59.2	1.9
40°-50°	1.8	0.1
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2987.8	98.0
0°-40°	3047.0	99.9
0°-60°	3048.8	100.0
0°-90°	3048.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7134	
5°	7143	677
15°	6204	1620
25°	1323	691
35°	76	59
45°	0	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7134.4
2.5°	7127.9
5°	7143.4
7.5°	7100.8
10°	7011.7
12.5°	6745.6
15°	6204.3
17.5°	5147.6
20°	3808.1
22.5°	2507.3
25°	1322.8
27.5°	536.1
30°	264.8
32.5°	140.8
35°	76.2
37.5°	38.8
40°	14.2
42.5°	2.6
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)