

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: P433184

Luminaire Tested: **LAM4B408R459035DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433184
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: LAM4B408R459035DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.9 lumens
Efficiency: N/A
Efficacy: 81.0 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

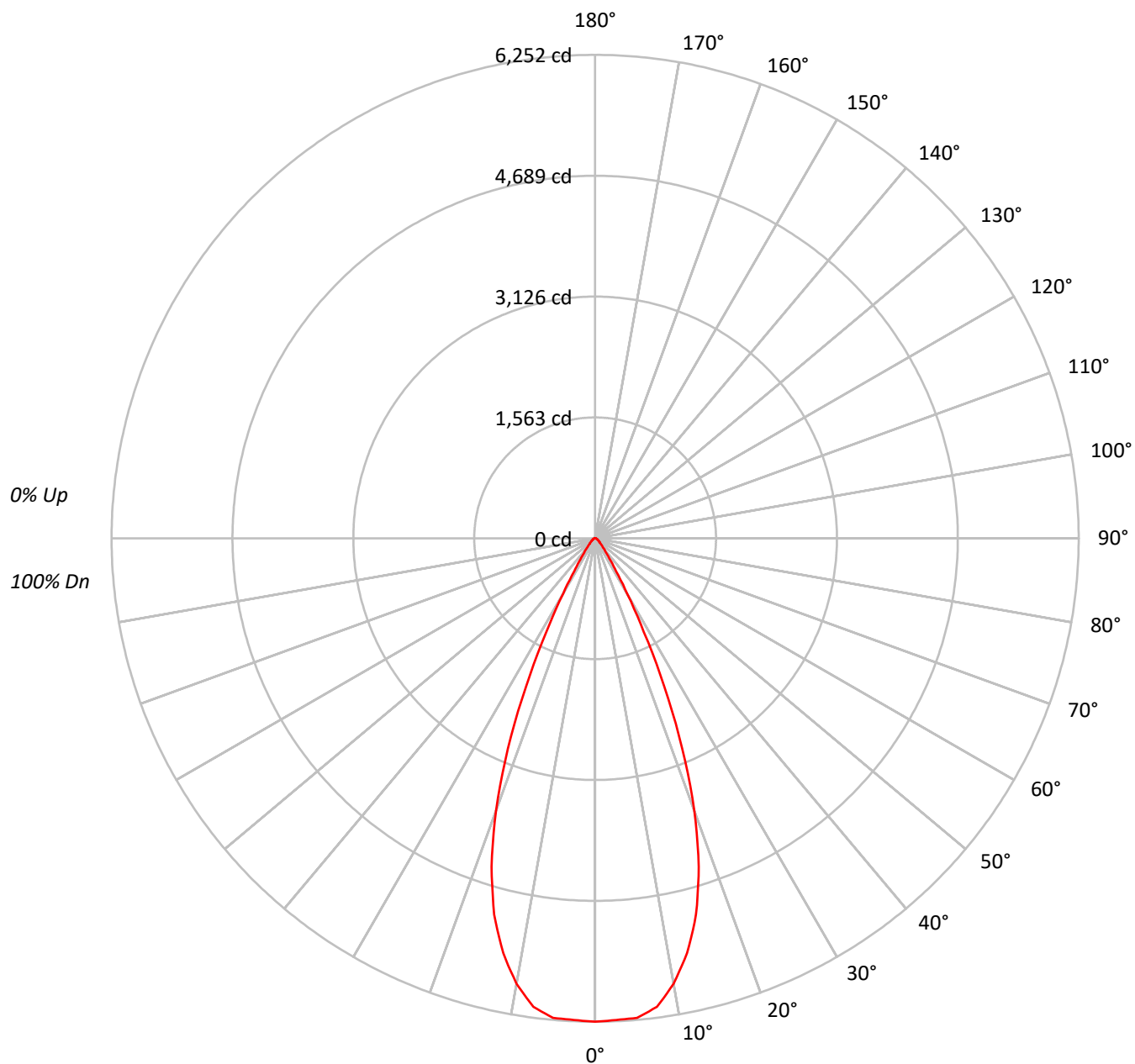
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3084461
5°	3083416
10°	2930796
15°	2574454
20°	1969438
25°	1149739
30°	470577
35°	199002
40°	108460
45°	70054
50°	54727
55°	47396
60°	38385
65°	30237
70°	27985
75°	24782
80°	27560
85°	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.6	17.5
10°-20°	1372.2	41.1
20°-30°	966.8	29.0
30°-40°	238.0	7.1
40°-50°	83.0	2.5
50°-60°	49.2	1.5
60°-70°	27.2	0.8
70°-80°	15.0	0.4
80°-90°	4.0	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°	2921.6	87.5
0°-40°	3159.5	94.7
0°-60°	3291.7	98.6
0°-90°	3337.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6252	
5°	6226	583
15°	5040	1372
25°	2112	967
35°	330	238
45°	100	83
55°	55	49
65°	26	27
75°	13	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6251.7
2.5°	6235.5
5°	6225.8
7.5°	6112.4
10°	5850.0
12.5°	5493.7
15°	5040.2
17.5°	4453.9
20°	3751.0
22.5°	2944.5
25°	2112.0
27.5°	1363.7
30°	826.0
32.5°	502.1
35°	330.4
37.5°	233.2
40°	168.4
42.5°	129.6
45°	100.4
47.5°	84.2
50°	71.3
52.5°	61.5
55°	55.1
57.5°	48.6
60°	38.9
62.5°	32.4
65°	25.9
67.5°	22.7
70°	19.4
72.5°	16.2
75°	13.0
77.5°	13.0
80°	9.7
82.5°	6.5
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)