

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: P433056

Luminaire Tested: **LAM4B408R209024DE01021MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R209024DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2847.1 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

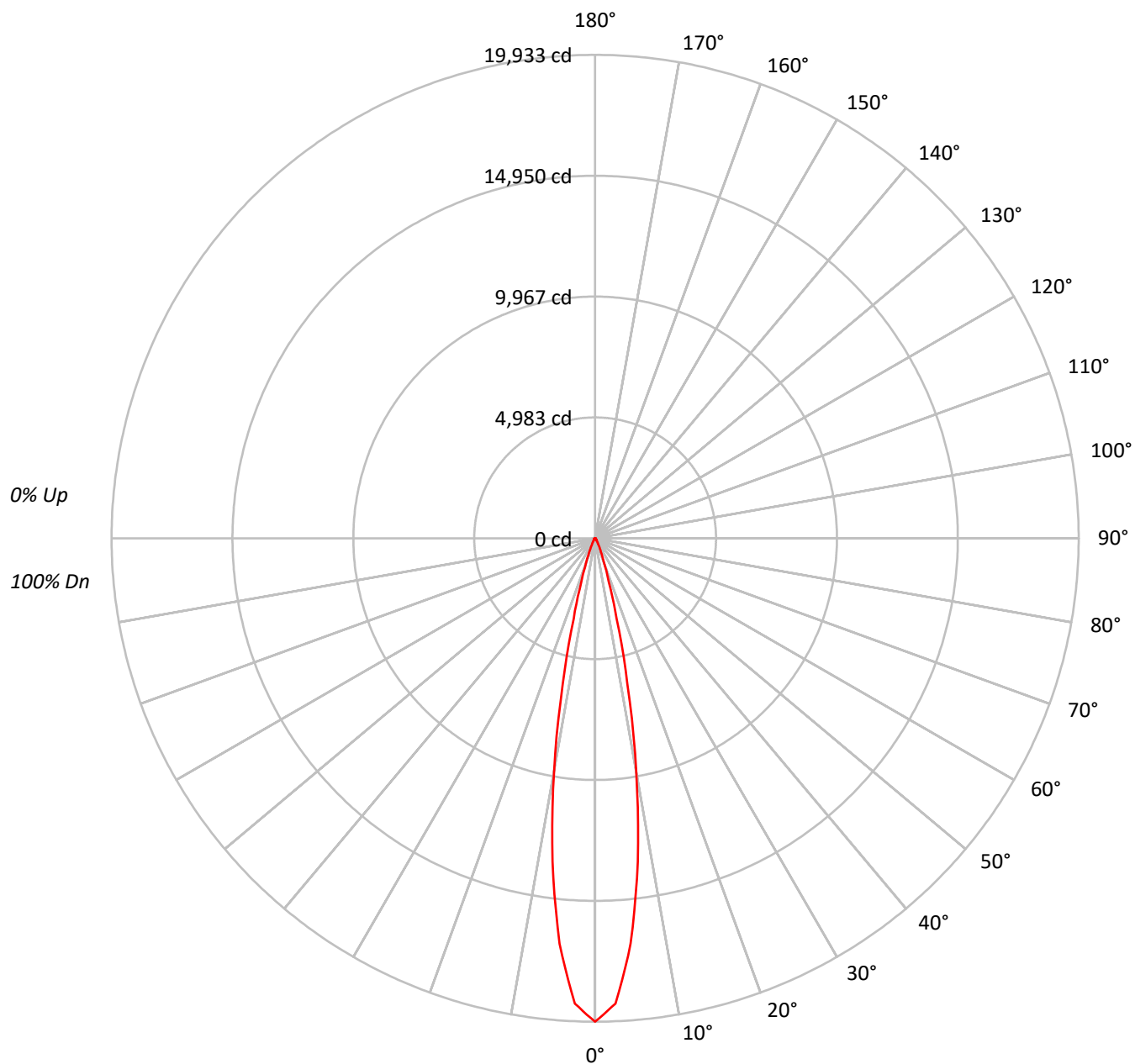
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97			
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94			
3	108	104	100	98	107	103	100	97	100	98	95	98	96	94	96	94	93	91			
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89			
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87			
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85			
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83			
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81			
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80			
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9834683
5°	8312861
10°	4882656
15°	1748261
20°	578440
25°	230220
30°	110067
35°	62881
40°	45406
45°	38236
50°	44058
55°	35956
60°	18058
65°	15293
70°	18897
75°	19825
80°	14775
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1374.4	48.3
10°-20°	1071.8	37.6
20°-30°	222.5	7.8
30°-40°	70.1	2.5
40°-50°	45.1	1.6
50°-60°	36.2	1.3
60°-70°	14.3	0.5
70°-80°	10.7	0.4
80°-90°	2.1	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°	2668.6	93.7
0°-40°	2738.8	96.2
0°-60°	2820.1	99.1
0°-90°	2847.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19933	
5°	16785	###
15°	3423	1072
25°	423	222
35°	104	70
45°	55	45
55°	42	36
65°	13	14
75°	10	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19933.3
2.5°	19202.3
5°	16784.7
7.5°	13448.1
10°	9746.0
12.5°	6148.4
15°	3422.7
17.5°	1882.4
20°	1101.7
22.5°	673.6
25°	422.9
27.5°	279.4
30°	193.2
32.5°	135.8
35°	104.4
37.5°	83.5
40°	70.5
42.5°	60.0
45°	54.8
47.5°	54.8
50°	57.4
52.5°	54.8
55°	41.8
57.5°	28.7
60°	18.3
62.5°	15.7
65°	13.1
67.5°	13.1
70°	13.1
72.5°	13.1
75°	10.4
77.5°	7.8
80°	5.2
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)