

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: P434321

Luminaire Tested: **LAMR4B408R209727DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434321
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: LAMR4B408R209727DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.7 lumens
Efficiency: N/A
Efficacy: 66.9 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

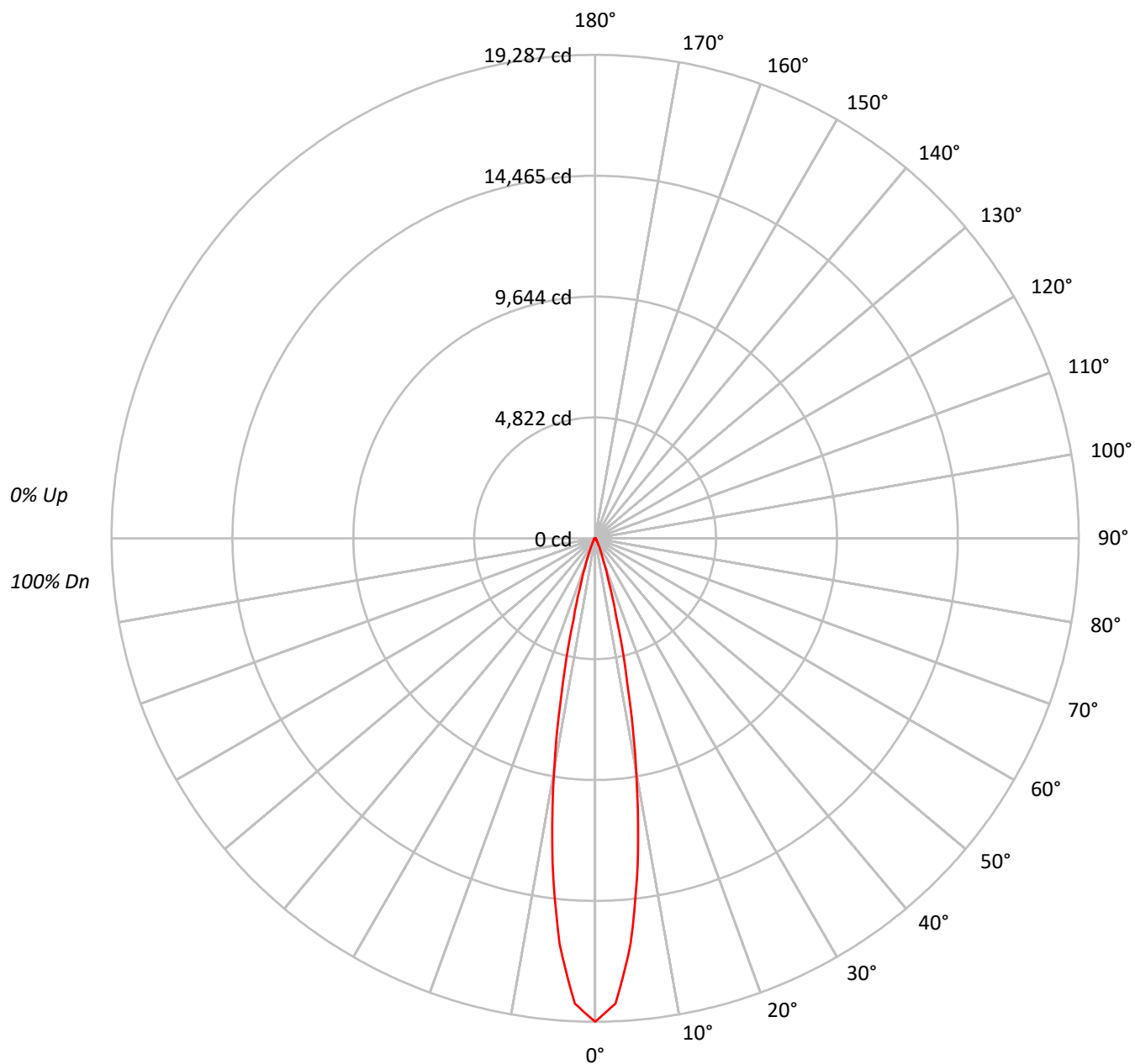
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	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	96	98	96	94	96	94	93	91		
4	105	100	97	94	104	99	96	93	97	94	92	96	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°	9515811
5°	8043338
10°	4724343
15°	1691615
20°	559696
25°	222762
30°	106478
35°	60833
40°	43925
45°	36980
50°	42676
55°	34751
60°	17466
65°	14710
70°	18176
75°	19253
80°	14490
85°	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1329.8	48.3
10°-20°	1037.0	37.6
20°-30°	215.2	7.8
30°-40°	67.8	2.5
40°-50°	43.6	1.6
50°-60°	35.0	1.3
60°-70°	13.8	0.5
70°-80°	10.3	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°	2582.1	93.7
0°-40°	2649.9	96.2
0°-60°	2728.6	99.1
0°-90°	2754.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19287	
5°	16240	###
15°	3312	1037
25°	409	215
35°	101	68
45°	53	44
55°	40	35
65°	13	14
75°	10	10
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19287.0
2.5°	18579.7
5°	16240.5
7.5°	13012.1
10°	9430.0
12.5°	5949.0
15°	3311.8
17.5°	1821.3
20°	1066.0
22.5°	651.7
25°	409.2
27.5°	270.3
30°	186.9
32.5°	131.4
35°	101.0
37.5°	80.8
40°	68.2
42.5°	58.1
45°	53.0
47.5°	53.0
50°	55.6
52.5°	53.0
55°	40.4
57.5°	27.8
60°	17.7
62.5°	15.2
65°	12.6
67.5°	12.6
70°	12.6
72.5°	12.6
75°	10.1
77.5°	7.6
80°	5.1
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)