

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: P433994

Luminaire Tested: **LAMR4B308R209027DE01021MMS**

Issue Date: 11/23/2020

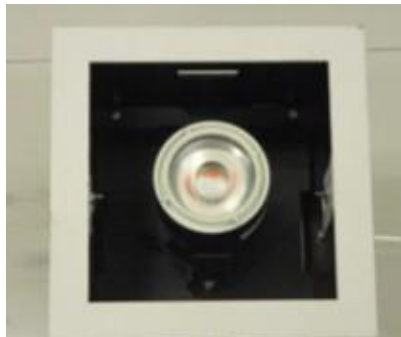
Test Information

Test Method: LM-41-14
Report Number: P433994
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: LAMR4B308R209027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2339.4 lumens
Efficiency: N/A
Efficacy: 73.3 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

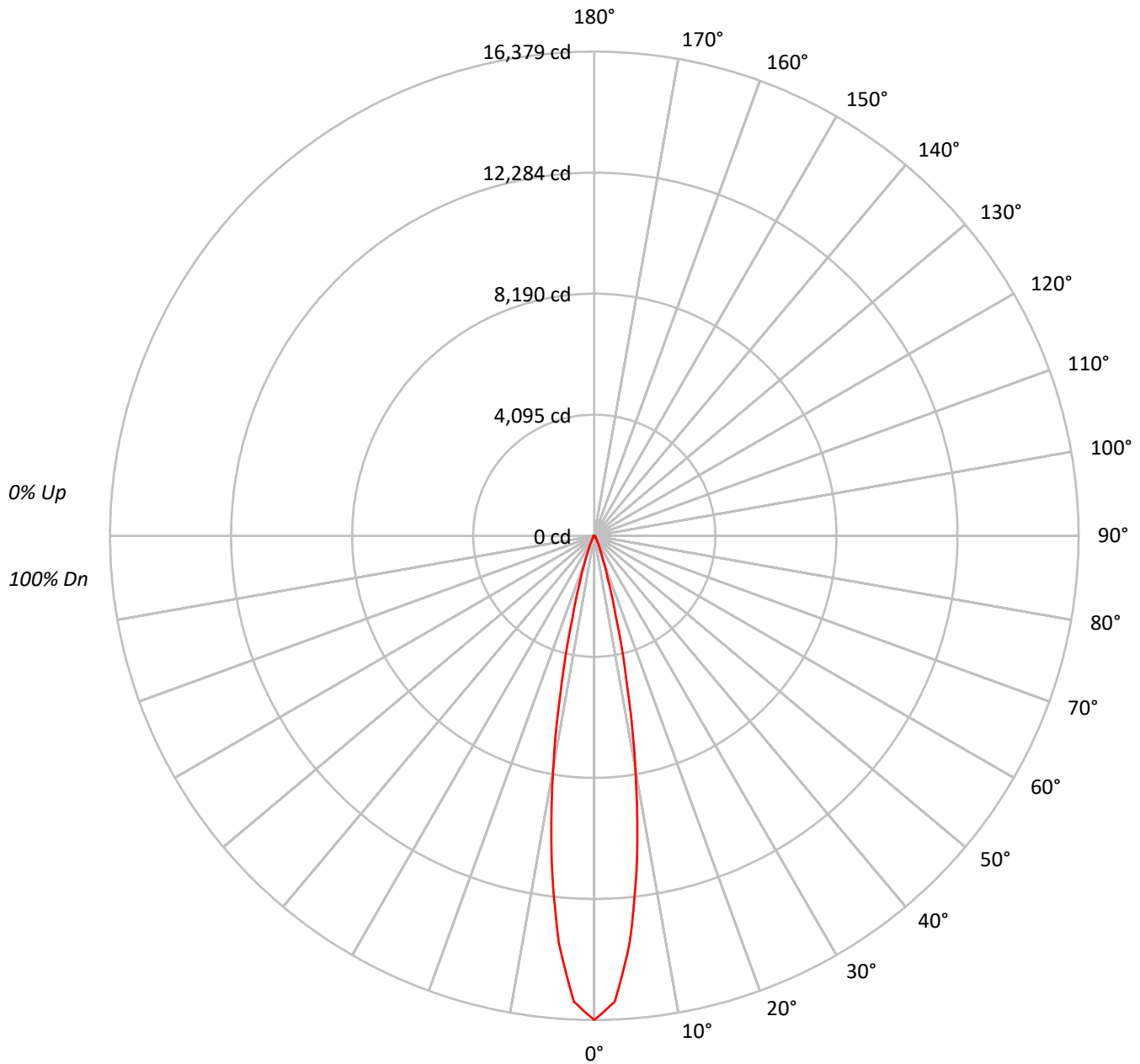
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8081162
5°	6830684
10°	4012084
15°	1436580
20°	475322
25°	189173
30°	90469
35°	51678
40°	37291
45°	31468
50°	36229
55°	29504
60°	14801
65°	12492
70°	15435
75°	16394
80°	12217
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1129.3	48.3
10°-20°	880.7	37.6
20°-30°	182.8	7.8
30°-40°	57.6	2.5
40°-50°	37.1	1.6
50°-60°	29.8	1.3
60°-70°	11.7	0.5
70°-80°	8.8	0.4
80°-90°	1.7	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°	2192.8	93.7
0°-40°	2250.4	96.2
0°-60°	2317.3	99.1
0°-90°	2339.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16379	
5°	13792	###
15°	2812	881
25°	348	183
35°	86	58
45°	45	37
55°	34	30
65°	11	12
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16379.2
2.5°	15778.5
5°	13792.0
7.5°	11050.3
10°	8008.3
12.5°	5052.1
15°	2812.5
17.5°	1546.7
20°	905.3
22.5°	553.5
25°	347.5
27.5°	229.5
30°	158.8
32.5°	111.6
35°	85.8
37.5°	68.6
40°	57.9
42.5°	49.3
45°	45.1
47.5°	45.1
50°	47.2
52.5°	45.1
55°	34.3
57.5°	23.6
60°	15.0
62.5°	12.9
65°	10.7
67.5°	10.7
70°	10.7
72.5°	10.7
75°	8.6
77.5°	6.4
80°	4.3
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)