

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: P433382

Luminaire Tested: **LAMR4B108R209050DE010x1MMS**

Issue Date: 11/23/2020

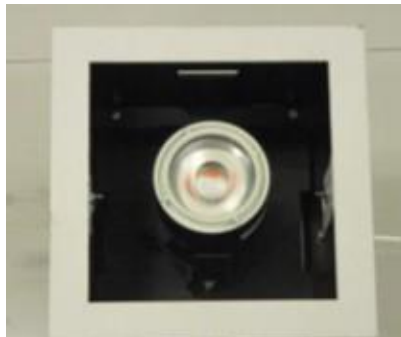
Test Information

Test Method: LM-41-14
Report Number: P433382
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: LAMR4B108R209050DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 919.1 lumens
Efficiency: N/A
Efficacy: 80.6 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

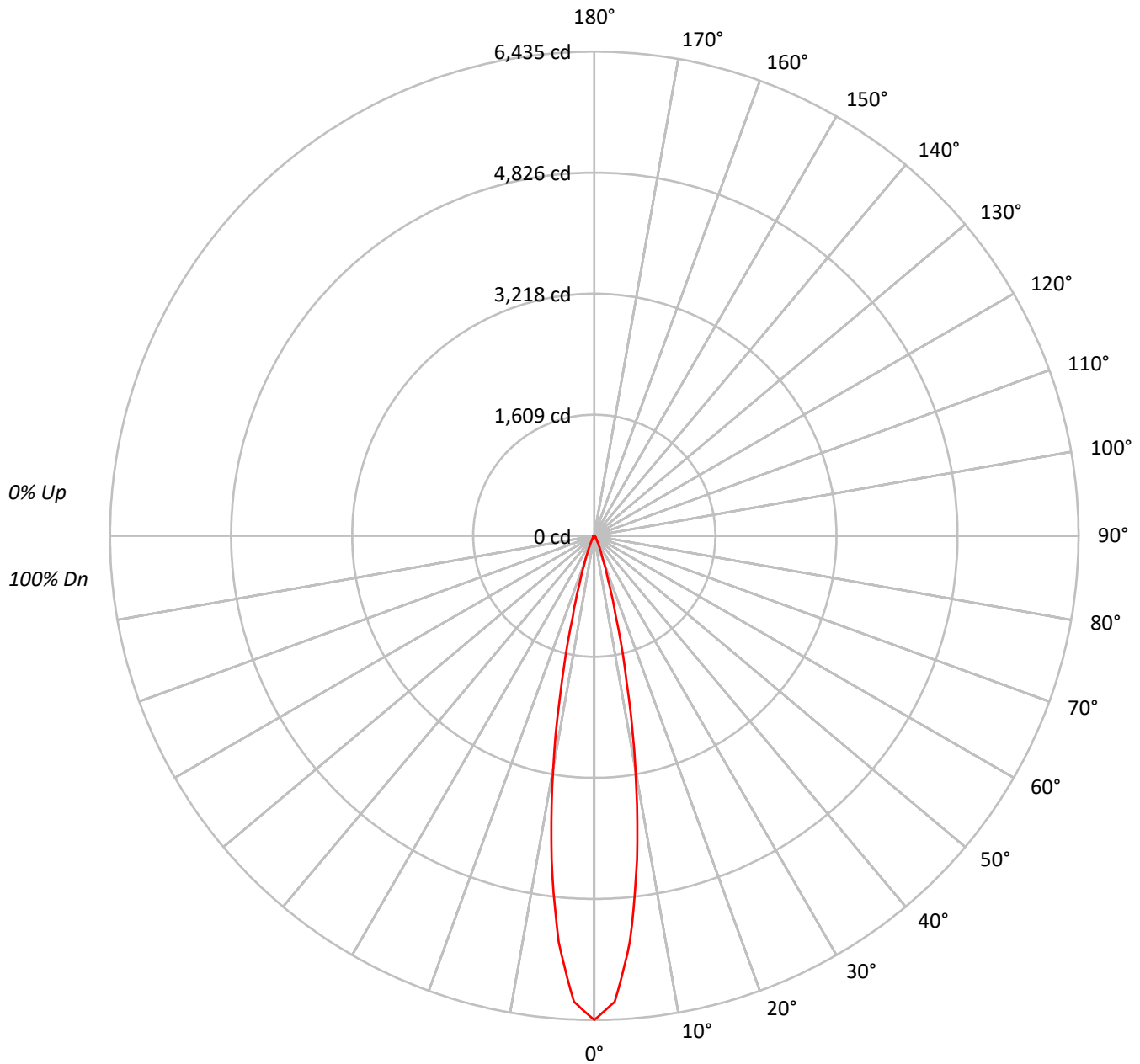
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3174799
5°	2683539
10°	1576217
15°	564365
20°	186758
25°	74308
30°	35550
35°	20298
40°	14685
45°	12350
50°	14200
55°	11612
60°	5822
65°	4903
70°	6059
75°	6481
80°	4830
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	48.3
10°-20°	346.0	37.6
20°-30°	71.8	7.8
30°-40°	22.6	2.5
40°-50°	14.6	1.6
50°-60°	11.7	1.3
60°-70°	4.6	0.5
70°-80°	3.4	0.4
80°-90°	0.7	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°	861.5	93.7
0°-40°	884.1	96.2
0°-60°	910.4	99.1
0°-90°	919.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6435	
5°	5418	444
15°	1105	346
25°	136	72
35°	34	23
45°	18	15
55°	14	12
65°	4	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6434.8
2.5°	6198.8
5°	5418.4
7.5°	4341.3
10°	3146.2
12.5°	1984.8
15°	1104.9
17.5°	607.7
20°	355.7
22.5°	217.4
25°	136.5
27.5°	90.2
30°	62.4
32.5°	43.8
35°	33.7
37.5°	27.0
40°	22.8
42.5°	19.4
45°	17.7
47.5°	17.7
50°	18.5
52.5°	17.7
55°	13.5
57.5°	9.3
60°	5.9
62.5°	5.1
65°	4.2
67.5°	4.2
70°	4.2
72.5°	4.2
75°	3.4
77.5°	2.5
80°	1.7
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)