

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: P433374

Luminaire Tested: **LAMR4B108R209030DE010x1MW**

Issue Date: 11/23/2020

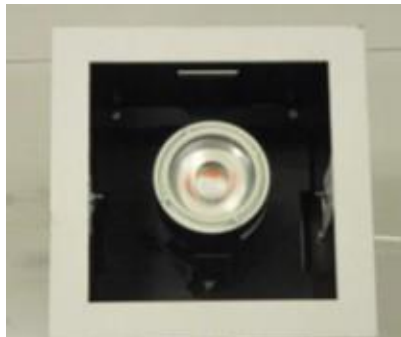
Test Information

Test Method: LM-41-14
Report Number: P433374
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: LAMR4B108R209030DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 786.8 lumens
Efficiency: N/A
Efficacy: 69.0 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

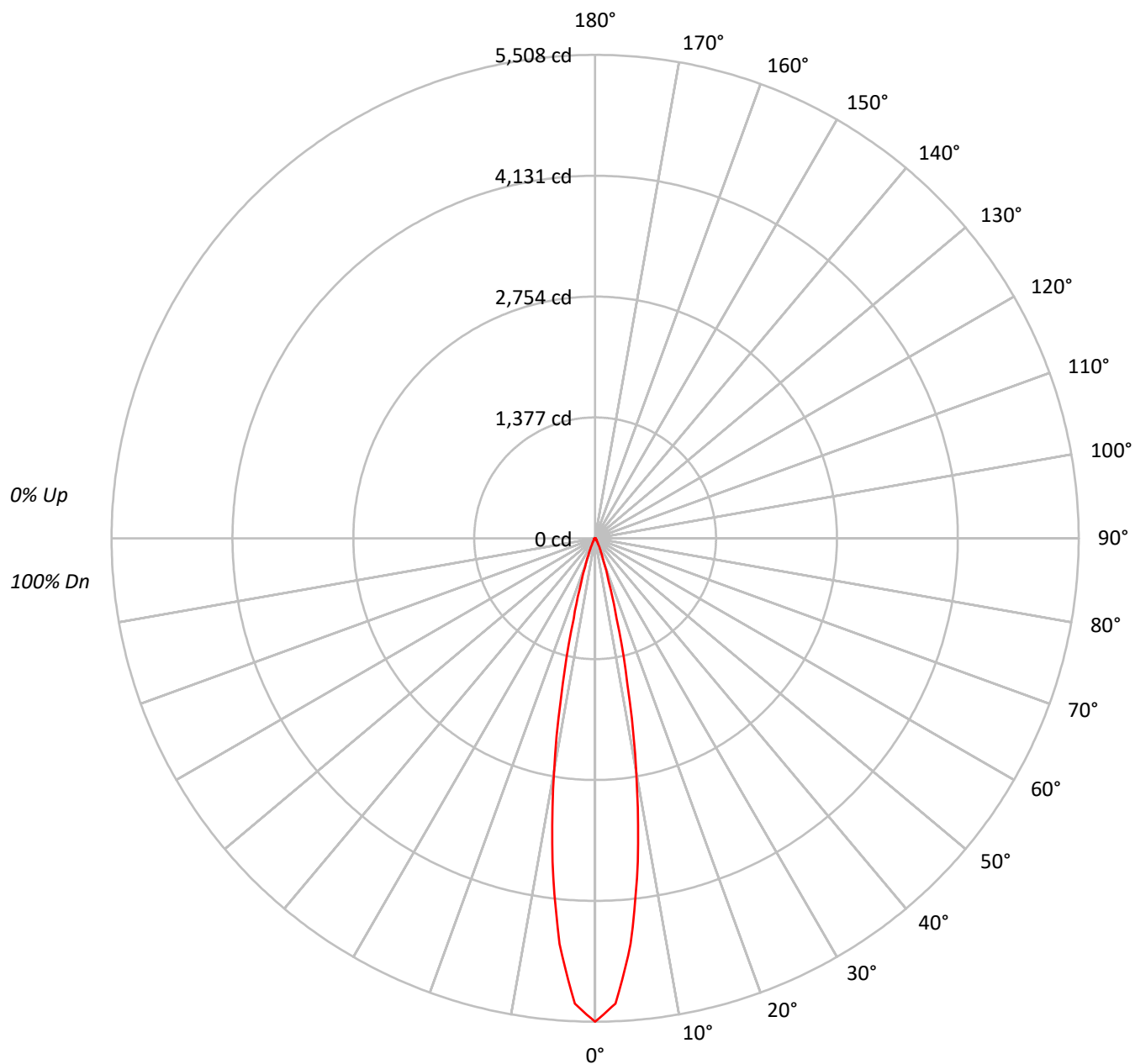
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2717683
5°	2297134
10°	1349268
15°	483100
20°	159876
25°	63639
30°	30422
35°	17407
40°	12559
45°	10606
50°	12204
55°	9892
60°	5032
65°	4203
70°	5193
75°	5528
80°	3978
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	48.3
10°-20°	296.2	37.6
20°-30°	61.5	7.8
30°-40°	19.4	2.5
40°-50°	12.5	1.6
50°-60°	10.0	1.3
60°-70°	3.9	0.5
70°-80°	3.0	0.4
80°-90°	0.6	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°	737.4	93.7
0°-40°	756.8	96.2
0°-60°	779.3	99.1
0°-90°	786.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5508	
5°	4638	380
15°	946	296
25°	117	61
35°	29	19
45°	15	12
55°	12	10
65°	4	4
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5508.3
2.5°	5306.3
5°	4638.2
7.5°	3716.2
10°	2693.2
12.5°	1699.0
15°	945.8
17.5°	520.2
20°	304.5
22.5°	186.1
25°	116.9
27.5°	77.2
30°	53.4
32.5°	37.5
35°	28.9
37.5°	23.1
40°	19.5
42.5°	16.6
45°	15.2
47.5°	15.2
50°	15.9
52.5°	15.2
55°	11.5
57.5°	7.9
60°	5.1
62.5°	4.3
65°	3.6
67.5°	3.6
70°	3.6
72.5°	3.6
75°	2.9
77.5°	2.2
80°	1.4
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)