Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P433441

Luminaire Tested: **LAMR4B108R359027DE010x1MB**

Issue Date: 11/23/2020

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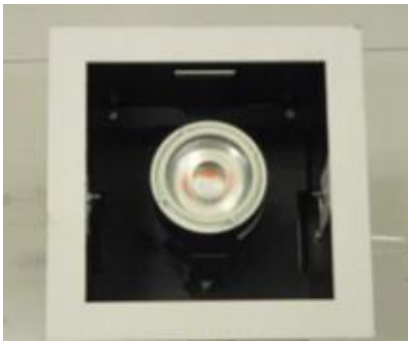
Test Information

Test Method:	LM-41-14
Report Number:	P433441
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab:	INNOVATION CENTER (G2)
Issue Date:	11/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	PORTFOLIO
Catalog Number:	LAMR4B108R359027DE010x1MB
Description:	PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source:	HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	755.6 lumens
Efficiency:	N/A
Efficacy:	66.3 lumens/watt
Spacing Criteria (0/90/45):	0.57 / 0.57 / 0.51
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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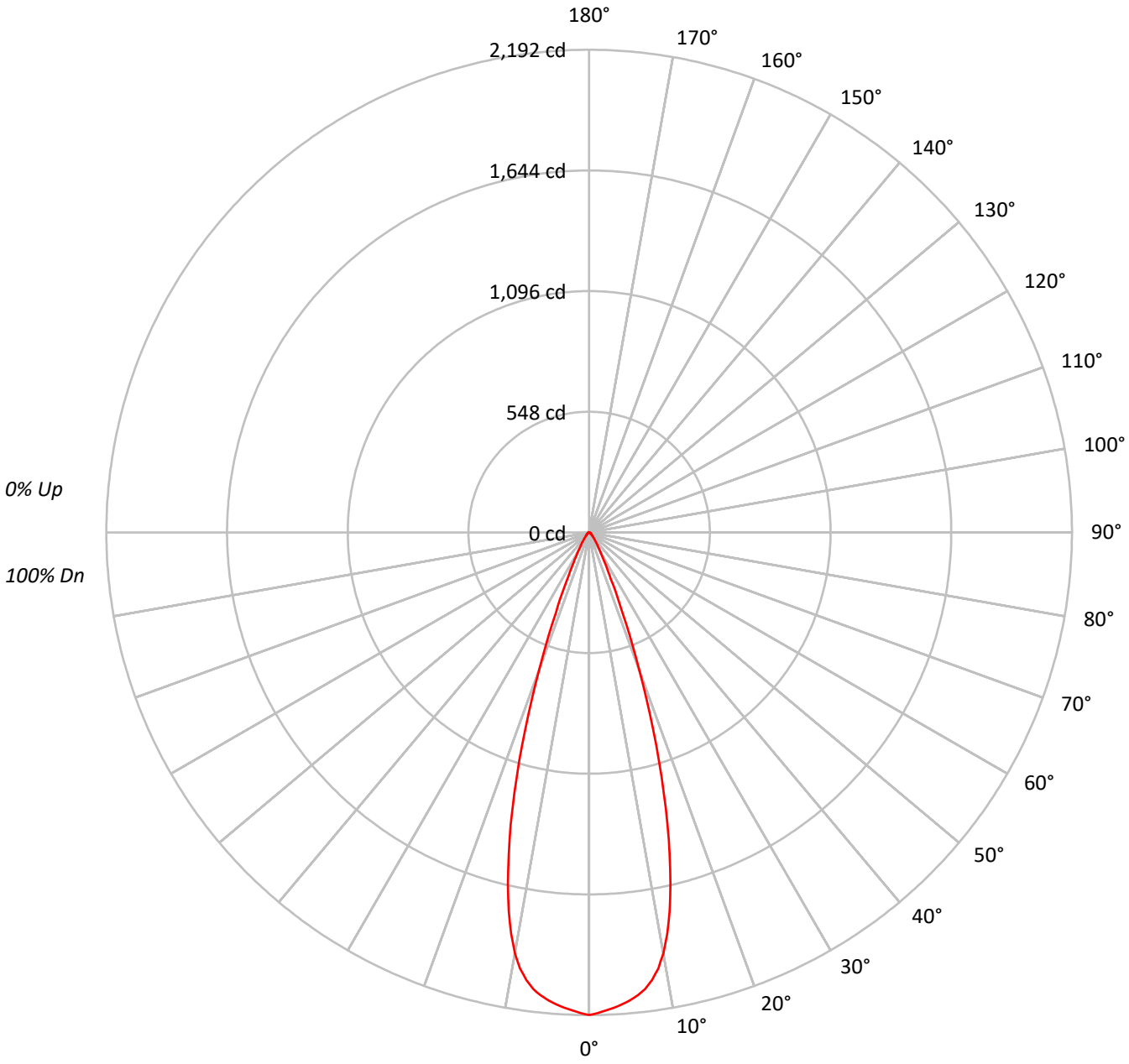
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1081291
5°	1056349
10°	972122
15°	702635
20°	347106
25°	127331
30°	57426
35°	31260
40°	19386
45°	13118
50°	9825
55°	8430
60°	7401
65°	7005
70°	6491
75°	5719
80°	6535
85°	4529

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	26.2
10°-20°	362.2	47.9
20°-30°	126.1	16.7
30°-40°	34.9	4.6
40°-50°	15.2	2.0
50°-60°	8.8	1.2
60°-70°	6.0	0.8
70°-80°	3.3	0.4
80°-90°	0.9	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°	686.5	90.8
0°-40°	721.4	95.5
0°-60°	745.5	98.7
0°-90°	755.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2192	
5°	2133	198
15°	1376	362
25°	234	126
35°	52	35
45°	19	15
55°	10	9
65°	6	6
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2191.6
1°	2184.0
2°	2172.8
3°	2161.5
4°	2148.7
5°	2132.9
6°	2113.3
7°	2089.3
8°	2052.4
9°	2005.0
10°	1940.4
11°	1857.6
12°	1757.6
13°	1640.3
14°	1511.7
15°	1375.6
16°	1230.4
17°	1084.5
18°	937.8
19°	796.5
20°	661.1
22.5°	394.1
25°	233.9
26°	194.8
27°	162.4
28°	137.6
29°	117.3
30°	100.8
32.5°	71.4
35°	51.9
37.5°	39.1
40°	30.1
42.5°	23.3
45°	18.8
47.5°	15.8
50°	12.8
52.5°	11.3
55°	9.8
57.5°	8.3
60°	7.5
62.5°	6.8
65°	6.0
67.5°	5.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	*3.0*
77.5°	*2.3*
80°	*2.3*
82.5°	*1.5*
85°	*0.8*
87.5°	*0.0*
90°	*0.0*

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0°-180°

70°	*4.5*
72.5°	*3.8*

(END OF REPORT)