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: P433353

Luminaire Tested: **LAMR4B108R159035DE010x1MW**

Issue Date: 11/23/2020

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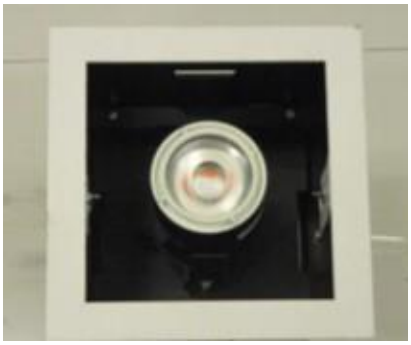
Test Information

Test Method:	LM-41-14
Report Number:	P433353
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-6)
Test Lab:	INNOVATION CENTER (G1)
Issue Date:	11/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	PORTFOLIO
Catalog Number:	LAMR4B108R159035DE010x1MW
Description:	PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 15 DEG TIR OPTIC
Light Source:	HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	817.2 lumens
Efficiency:	N/A
Efficacy:	71.7 lumens/watt
Spacing Criteria (0/90/45):	0.3 / 0.3 / 0.29
Luminous Opening:	Circular (Dia: 0.29' 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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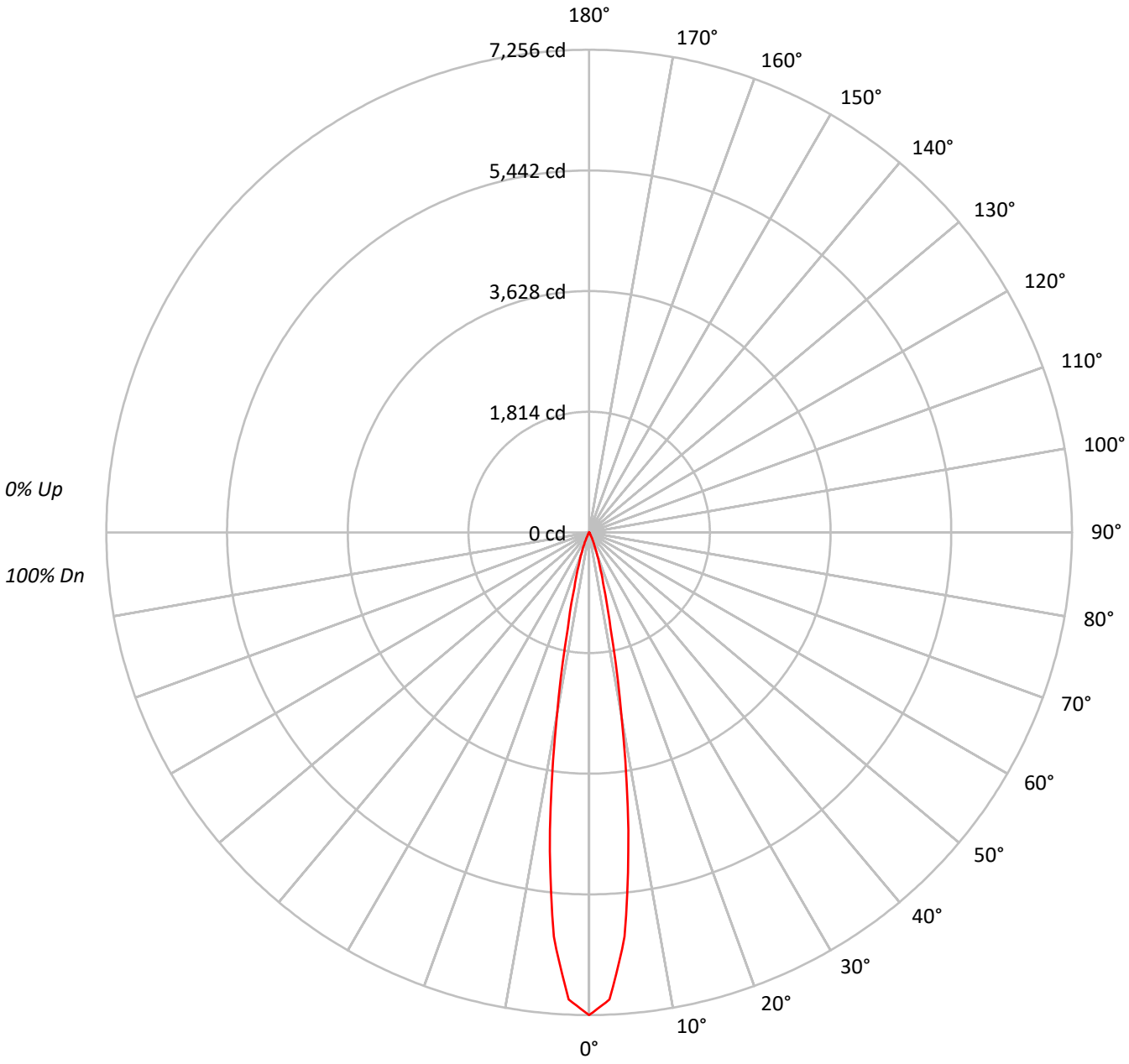
Luminous Intensity Polar Plot



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96
3	110	106	103	101	108	105	102	100	103	100	98	100	99	97	98	97	96	94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91
6	103	98	95	92	102	98	94	92	96	94	92	95	93	91	94	92	91	90
7	101	96	93	90	100	96	92	90	95	92	90	94	91	89	93	91	89	88
8	99	94	91	89	99	94	91	89	93	90	88	92	90	88	91	89	88	87
9	98	92	89	87	97	92	89	87	91	89	87	91	88	87	90	88	86	86
10	96	91	88	86	95	91	88	86	90	87	85	89	87	85	89	87	85	84

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1168969
5°	986568
10°	453240
15°	141335
20°	57588
25°	18896
30°	5860
35°	1239
40°	315
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.7	57.6
10°-20°	280.6	34.3
20°-30°	59.4	7.3
30°-40°	6.3	0.8
40°-50°	0.2	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	810.8	99.2
0°-40°	817.0	100.0
0°-60°	817.2	100.0
0°-90°	817.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7256	
5°	6100	471
15°	847	281
25°	106	59
35°	6	6
45°	0	0
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	7256.0
2.5°	7026.7
5°	6100.5
7.5°	4516.1
10°	2770.6
12.5°	1478.5
15°	847.4
17.5°	532.2
20°	335.9
22.5°	198.1
25°	106.3
27.5°	60.0
30°	31.5
32.5°	15.9
35°	6.3
37.5°	3.3
40°	1.5
42.5°	0.4
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)