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: P433611

Luminaire Tested: **LAMR4B108R709027DE010x1MW**

Issue Date: 11/23/2020

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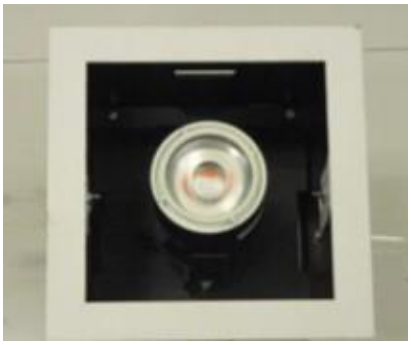
Test Information

Test Method:	LM-41-14
Report Number:	P433611
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab:	INNOVATION CENTER (G1)
Issue Date:	11/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	PORTFOLIO
Catalog Number:	LAMR4B108R709027DE010x1MW
Description:	PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source:	HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	740.6 lumens
Efficiency:	N/A
Efficacy:	65.0 lumens/watt
Spacing Criteria (0/90/45):	1.1 / 1.1 / 1.09
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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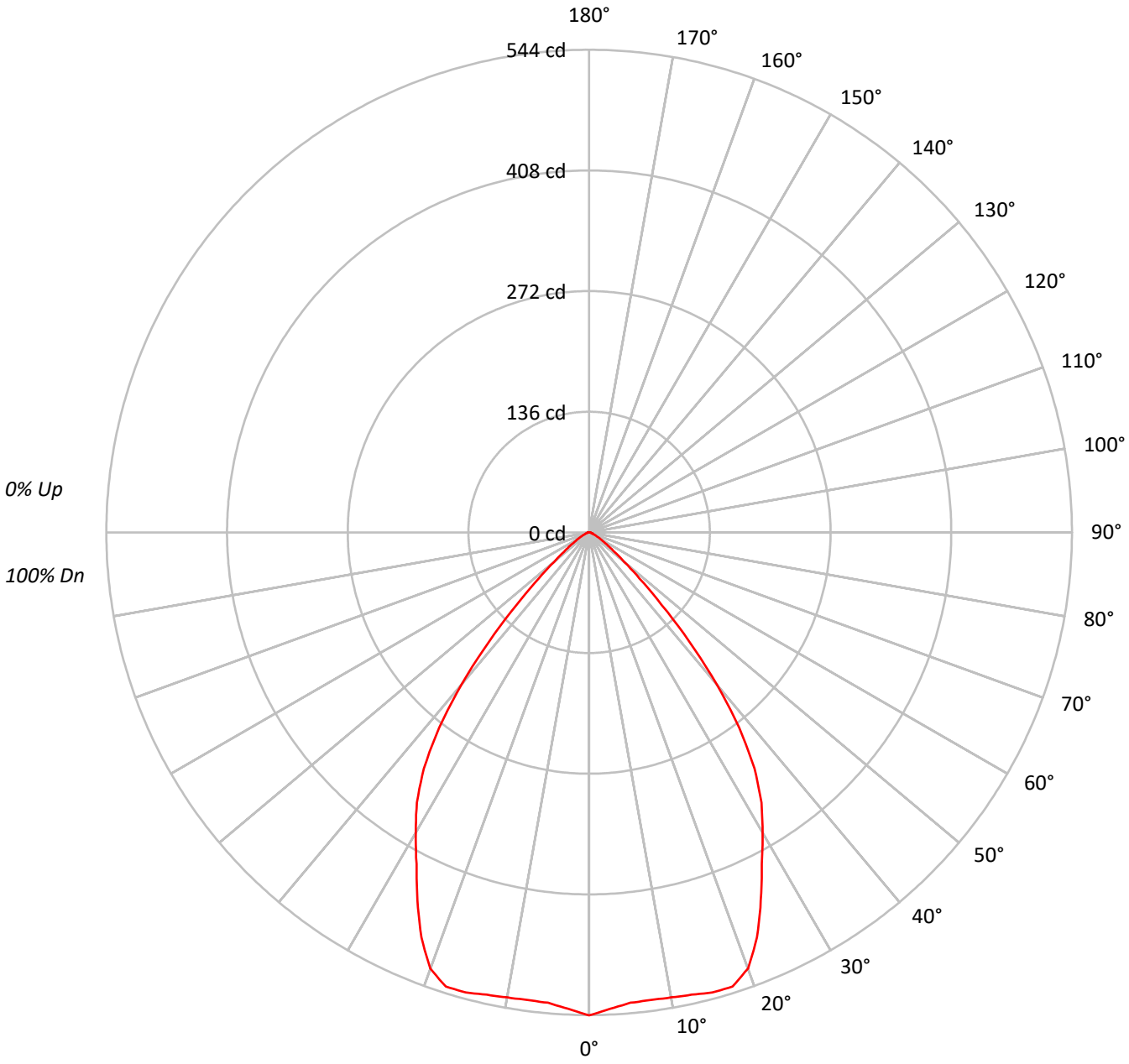
Luminous Intensity Polar Plot



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	268596
5°	263580
10°	266627
15°	274189
20°	274650
25°	249165
30°	222641
35°	195569
40°	143948
45°	80659
50°	39683
55°	22279
60°	13519
65°	8873
70°	6636
75°	5719
80°	4262
85°	4529

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	6.9
10°-20°	151.3	20.4
20°-30°	209.9	28.3
30°-40°	197.5	26.7
40°-50°	94.3	12.7
50°-60°	24.9	3.4
60°-70°	7.9	1.1
70°-80°	3.2	0.4
80°-90°	0.8	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°	412.0	55.6
0°-40°	609.5	82.3
0°-60°	728.7	98.4
0°-90°	740.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	544	
5°	532	51
15°	537	151
25°	458	210
35°	325	197
45°	116	94
55°	26	25
65°	8	8
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	544.4
2.5°	537.5
5°	532.2
7.5°	531.5
10°	532.2
12.5°	533.7
15°	536.8
17.5°	536.8
20°	523.1
22.5°	494.2
25°	457.7
27.5°	421.2
30°	390.8
32.5°	361.2
35°	324.7
37.5°	277.5
40°	223.5
42.5°	166.5
45°	115.6
47.5°	76.8
50°	51.7
52.5°	35.7
55°	25.9
57.5°	18.2
60°	13.7
62.5°	9.9
65°	7.6
67.5°	5.3
70°	4.6
72.5°	3.8
75°	3.0
77.5°	2.3
80°	1.5
82.5°	1.5
85°	0.8
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)