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: P433951

Luminaire Tested: **LAMR4B308R109035DE01021MB**

Issue Date: 11/23/2020

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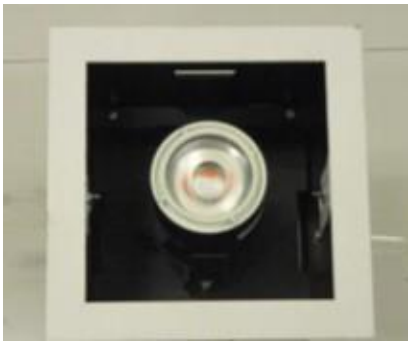
Test Information

Test Method:	LM-41-14
Report Number:	P433951
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab:	INNOVATION CENTER (G1)
Issue Date:	11/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	PORTFOLIO
Catalog Number:	LAMR4B308R109035DE01021MB
Description:	PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source:	HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2460.8 lumens
Efficiency:	N/A
Efficacy:	77.1 lumens/watt
Spacing Criteria (0/90/45):	0.22 / 0.22 / 0.22
Luminous Opening:	Circular (Dia: 0.17' x H: 0')
CIE Type:	Direct

Input Watts (W):	31.9
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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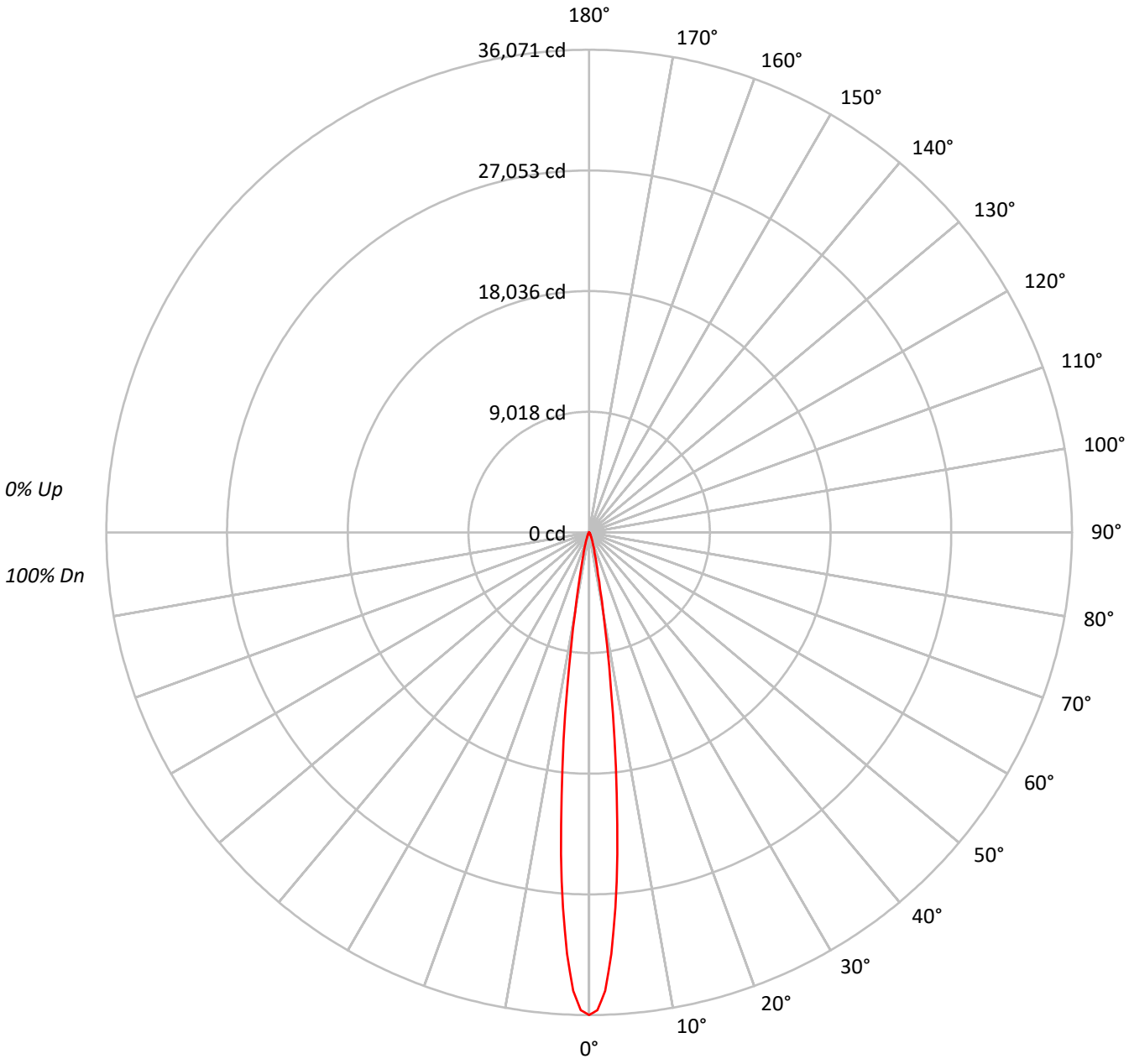
Luminous Intensity Polar Plot



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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	99	99	98	97	96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	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	96	94	92	91
6	103	98	95	93	102	98	95	92	97	94	92	95	93	91	94	92	91	90
7	102	97	93	91	101	96	93	91	95	92	90	94	92	90	93	91	90	89
8	100	95	92	89	99	94	91	89	94	91	89	93	90	89	92	90	88	88
9	98	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87
10	97	92	89	87	96	92	89	87	91	88	87	90	88	86	90	88	86	86

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17796496
5°	11954142
10°	3050883
15°	789774
20°	353879
25°	168324
30°	90355
35°	52521
40°	40833
45°	22118
50°	18268
55°	13677
60°	15689
65°	9223
70°	11396
75°	15060
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1658.8	67.4
10°-20°	528.1	21.5
20°-30°	154.3	6.3
30°-40°	58.7	2.4
40°-50°	27.9	1.1
50°-60°	16.8	0.7
60°-70°	8.8	0.4
70°-80°	7.3	0.3
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°	2341.2	95.1
0°-40°	2399.9	97.5
0°-60°	2444.7	99.3
0°-90°	2460.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	36071	
5°	24137	###
15°	1546	528
25°	309	154
35°	87	59
45°	32	28
55°	16	17
65°	8	9
75°	8	7
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	36070.6
1°	35721.7
2°	34278.6
3°	31527.1
4°	28125.4
5°	24136.9
6°	19728.2
7°	15660.5
8°	11695.8
9°	8524.0
10°	6089.7
11°	4313.6
12°	3195.5
13°	2426.4
14°	1926.8
15°	1546.2
17.5°	1007.0
20°	674.0
22.5°	452.0
25°	309.2
27.5°	214.1
30°	158.6
32.5°	111.0
35°	87.2
37.5°	71.4
40°	63.4
42.5°	47.6
45°	31.7
47.5°	23.8
50°	23.8
52.5°	23.8
55°	15.9
57.5°	15.9
60°	15.9
62.5°	7.9
65°	7.9
67.5°	7.9
70°	7.9
72.5°	7.9
75°	7.9
77.5°	7.9
80°	0.0
82.5°	0.0

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CANDELA DISTRIBUTION (continued):

	0°
90°	*0.0*

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0°-180°

85°	*0.0*
87.5°	*0.0*

(END OF REPORT)