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: P431638

Luminaire Tested: **LAMR4B312R459024DE01021MB**

Issue Date: 11/23/2020

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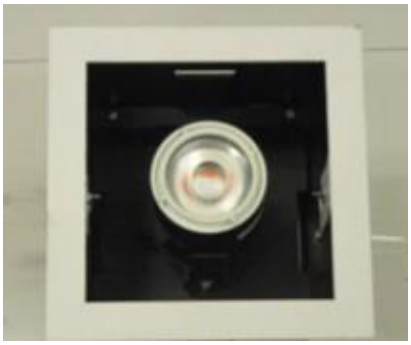
Test Information

Test Method:	LM-41-14
Report Number:	P431638
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab:	INNOVATION CENTER (G2)
Issue Date:	11/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	PORTFOLIO
Catalog Number:	LAMR4B312R459024DE01021MB
Description:	PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source:	HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3125.8 lumens
Efficiency:	N/A
Efficacy:	76.4 lumens/watt
Spacing Criteria (0/90/45):	0.73 / 0.73 / 0.66
Luminous Opening:	Circular (Dia: 0.17' x H: 0')
CIE Type:	Direct

Input Watts (W):	40.9
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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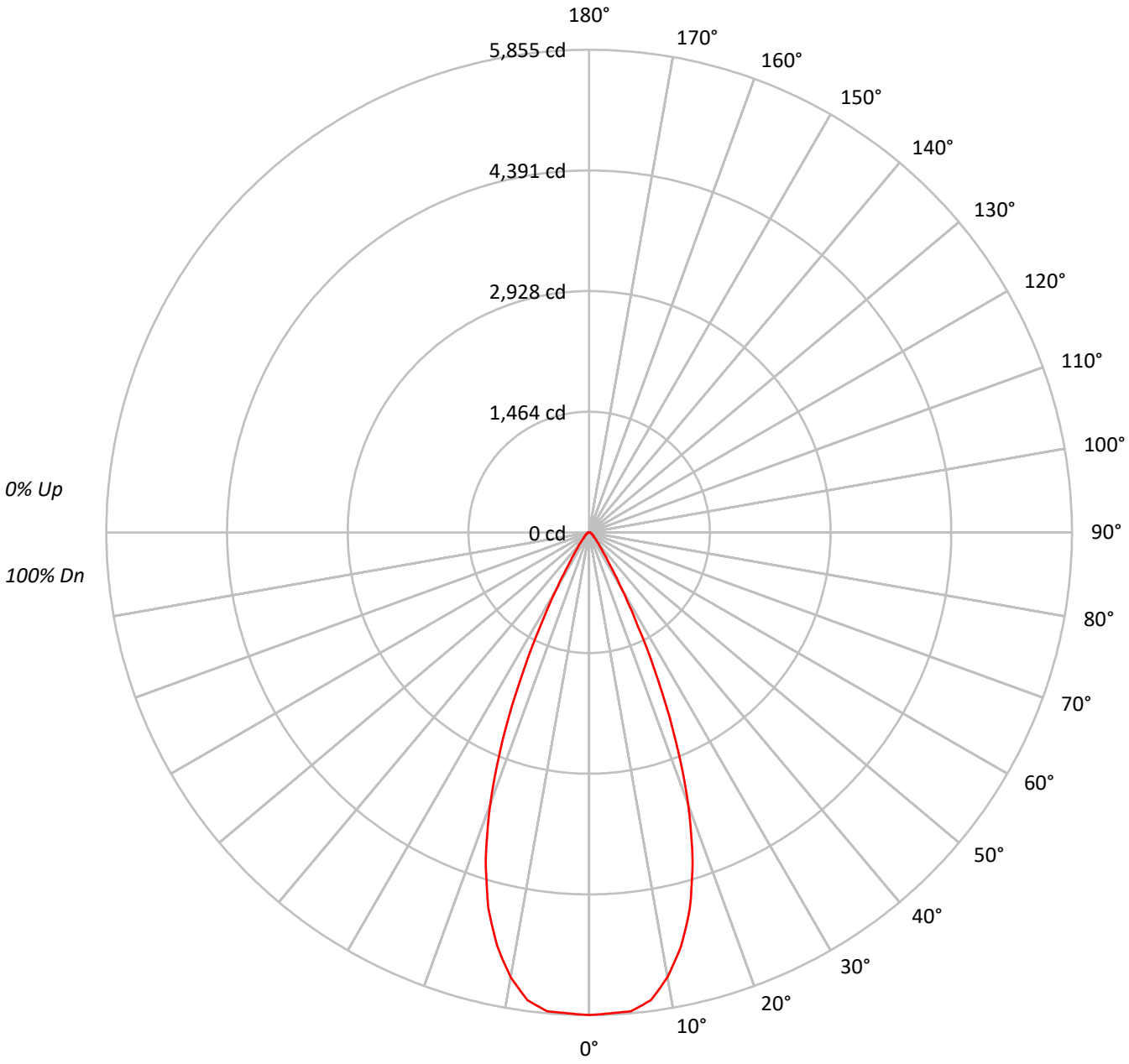
Luminous Intensity Polar Plot



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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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2888589
5°	2887588
10°	2744678
15°	2410952
20°	1844373
25°	1076683
30°	440667
35°	186353
40°	101568
45°	65588
50°	51196
55°	44385
60°	35918
65°	28369
70°	26254
75°	23066
80°	25855
85°	16983

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.6	17.5
10°-20°	1285.0	41.1
20°-30°	905.4	29.0
30°-40°	222.8	7.1
40°-50°	77.7	2.5
50°-60°	46.0	1.5
60°-70°	25.5	0.8
70°-80°	14.0	0.4
80°-90°	3.7	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°	2736.0	87.5
0°-40°	2958.9	94.7
0°-60°	3082.6	98.6
0°-90°	3125.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5855	
5°	5830	546
15°	4720	1285
25°	1978	905
35°	309	223
45°	94	78
55°	52	46
65°	24	25
75°	12	14
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5854.7
2.5°	5839.5
5°	5830.4
7.5°	5724.2
10°	5478.5
12.5°	5144.8
15°	4720.1
17.5°	4171.1
20°	3512.8
22.5°	2757.5
25°	1977.8
27.5°	1277.1
30°	773.5
32.5°	470.2
35°	309.4
37.5°	218.4
40°	157.7
42.5°	121.3
45°	94.0
47.5°	78.9
50°	66.7
52.5°	57.6
55°	51.6
57.5°	45.5
60°	36.4
62.5°	30.3
65°	24.3
67.5°	21.2
70°	18.2
72.5°	15.2
75°	12.1
77.5°	12.1
80°	9.1
82.5°	6.1
85°	3.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)