

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: P431660

Luminaire Tested: **LAMR4B312R459730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431660
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: LAMR4B312R459730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3390.4 lumens
Efficiency: N/A
Efficacy: 82.9 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

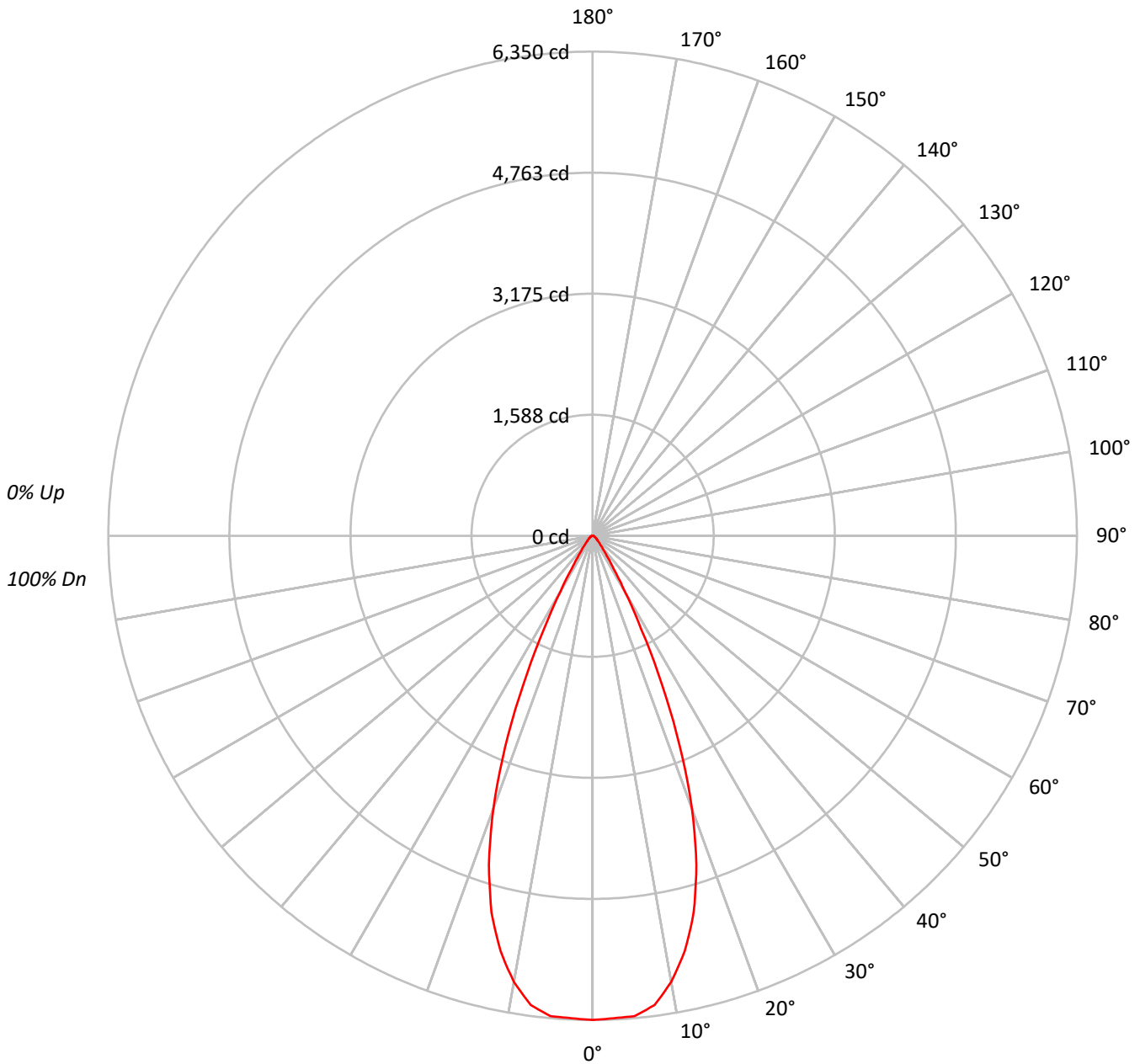
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89	89	89	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85	85	85	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	80	80	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63	63	63	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3133009
5°	3131902
10°	2976937
15°	2614959
20°	2000416
25°	1167813
30°	477983
35°	202134
40°	110199
45°	71170
50°	55572
55°	48084
60°	38977
65°	30704
70°	28418
75°	25163
80°	28128
85°	18681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.8	17.5
10°-20°	1393.8	41.1
20°-30°	982.0	29.0
30°-40°	241.7	7.1
40°-50°	84.3	2.5
50°-60°	49.9	1.5
60°-70°	27.6	0.8
70°-80°	15.2	0.4
80°-90°	4.0	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°	2967.6	87.5
0°-40°	3209.3	94.7
0°-60°	3343.5	98.6
0°-90°	3390.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6350	
5°	6324	592
15°	5120	1394
25°	2145	982
35°	336	242
45°	102	84
55°	56	50
65°	26	28
75°	13	15
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6350.1
2.5°	6333.6
5°	6323.7
7.5°	6208.6
10°	5942.1
12.5°	5580.2
15°	5119.5
17.5°	4524.0
20°	3810.0
22.5°	2990.8
25°	2145.2
27.5°	1385.2
30°	839.0
32.5°	510.0
35°	335.6
37.5°	236.9
40°	171.1
42.5°	131.6
45°	102.0
47.5°	85.5
50°	72.4
52.5°	62.5
55°	55.9
57.5°	49.4
60°	39.5
62.5°	32.9
65°	26.3
67.5°	23.0
70°	19.7
72.5°	16.5
75°	13.2
77.5°	13.2
80°	9.9
82.5°	6.6
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)