

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: P431575

Luminaire Tested: **LAMR4B312R309035DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-8)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B312R309035DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 30 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3869.3 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

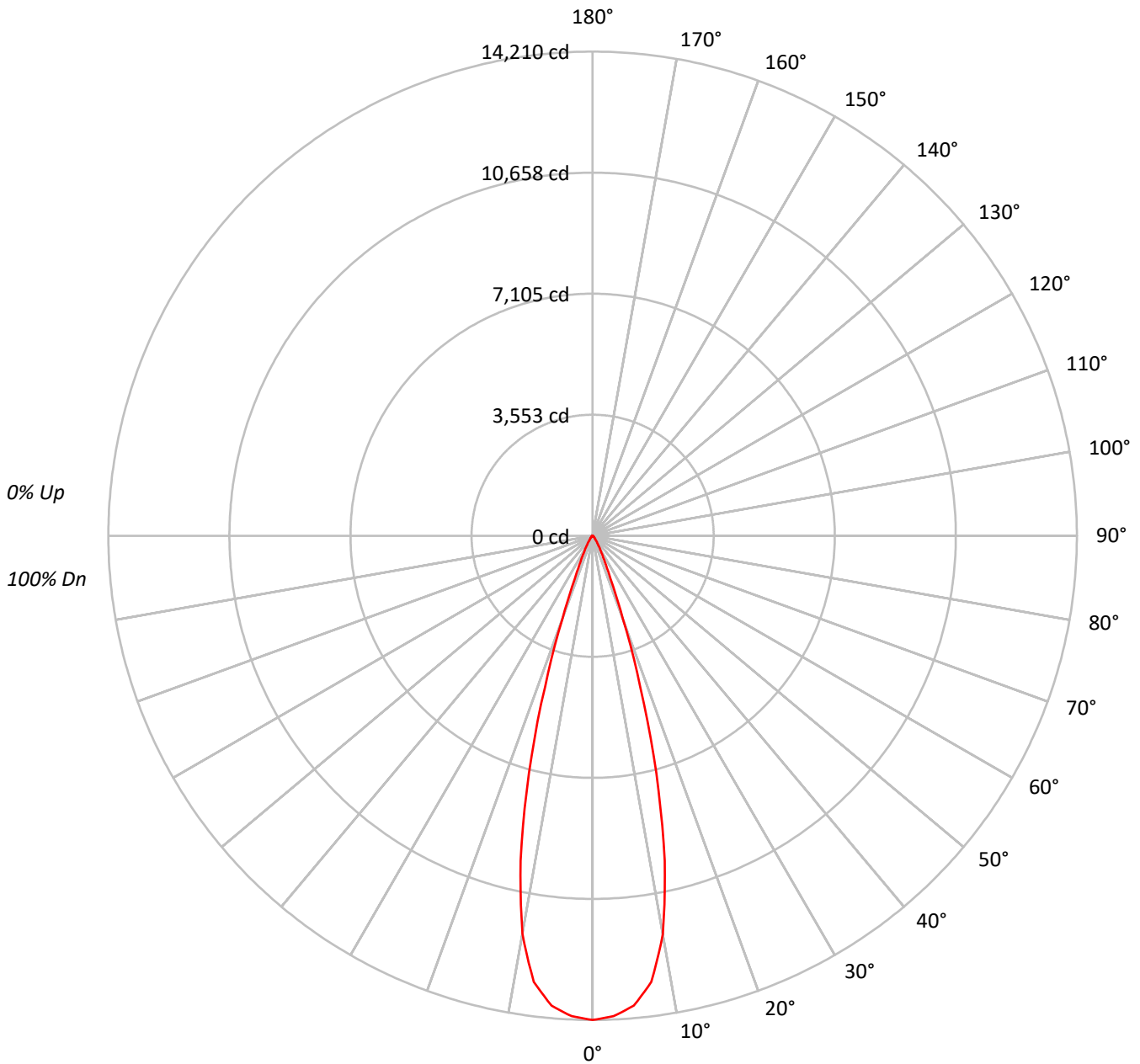
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100		
	1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	98	96	96	96	96	96		
	2	111	107	104	102	109	106	103	100	102	100	98	96	96	96	97	95	94	94	93	93	93	93	93		
	3	107	103	99	96	105	101	98	95	99	96	94	92	92	92	94	92	91	91	90	90	90	90	90		
	4	104	98	94	91	102	97	94	91	95	92	90	89	89	89	92	90	88	88	87	87	87	87	87		
	5	101	95	91	87	99	94	90	87	92	89	86	86	86	86	89	87	85	85	84	84	84	84	84		
	6	98	91	87	84	97	91	87	84	89	86	83	83	83	83	87	84	82	82	81	81	81	81	81		
	7	95	88	84	81	94	88	84	81	87	83	81	80	80	80	85	82	80	80	79	79	79	79	79		
	8	92	86	81	79	91	85	81	78	84	81	78	78	78	78	83	80	78	78	77	77	77	77	77		
	9	90	83	79	76	89	83	79	76	82	78	76	76	76	76	80	78	75	75	74	74	74	74	74		
	10	88	81	77	74	87	80	77	74	80	76	74	74	74	74	78	76	73	73	72	72	72	72	72		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7010677
5°	6857527
10°	5945808
15°	3685205
20°	1350675
25°	451512
30°	221615
35°	110523
40°	68528
45°	43539
50°	31010
55°	25289
60°	21709
65°	17161
70°	21205
75°	20969
80°	20741
85°	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.9	32.6
10°-20°	1905.2	49.2
20°-30°	464.5	12.0
30°-40°	127.2	3.3
40°-50°	51.2	1.3
50°-60°	27.4	0.7
60°-70°	16.3	0.4
70°-80°	12.6	0.3
80°-90°	3.0	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°	3631.6	93.9
0°-40°	3758.8	97.1
0°-60°	3837.4	99.2
0°-90°	3869.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14210	
5°	13846	###
15°	7215	1905
25°	829	465
35°	184	127
45°	62	51
55°	29	27
65°	15	16
75°	11	13
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14209.5
2.5°	14114.0
5°	13846.2
7.5°	13207.6
10°	11868.1
12.5°	9769.0
15°	7214.8
17.5°	4649.6
20°	2572.5
22.5°	1372.5
25°	829.4
27.5°	561.5
30°	389.0
32.5°	264.2
35°	183.5
37.5°	135.8
40°	106.4
42.5°	80.7
45°	62.4
47.5°	51.4
50°	40.4
52.5°	36.7
55°	29.4
57.5°	25.7
60°	22.0
62.5°	18.3
65°	14.7
67.5°	14.7
70°	14.7
72.5°	14.7
75°	11.0
77.5°	11.0
80°	7.3
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)