

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: P434078

Luminaire Tested: **LAMR4B308R359050DE01021MMS**

Issue Date: 11/23/2020

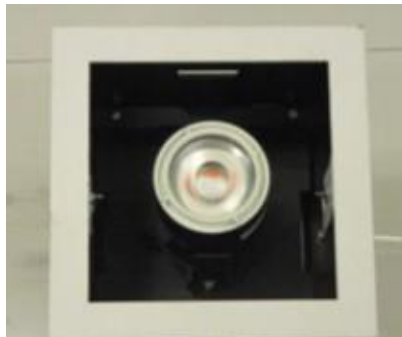
Test Information

Test Method: LM-41-14
Report Number: P434078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-6)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B308R359050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.51
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

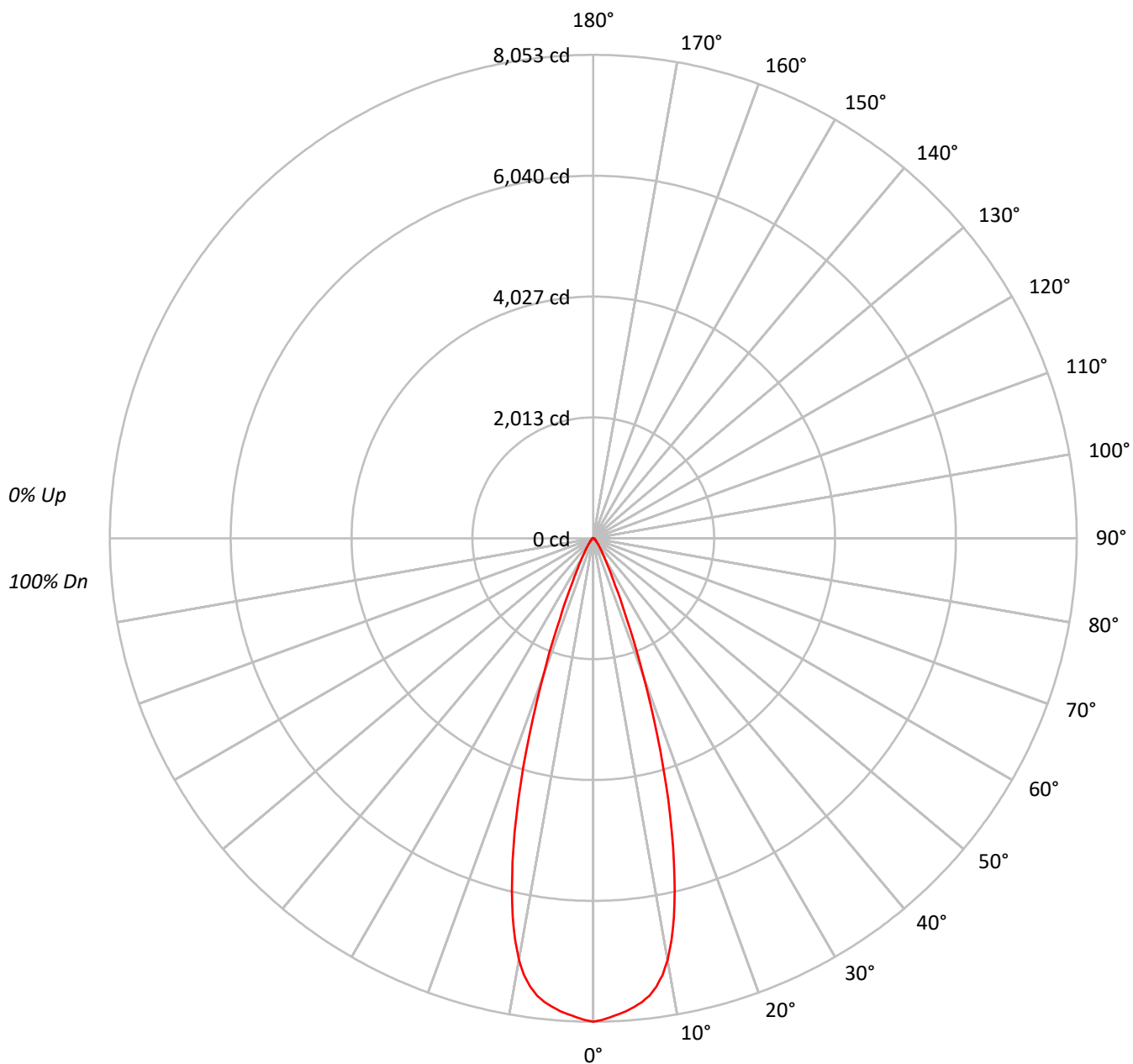
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434078

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	88	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		84
7	92	85	81	77	91	85	80	77	84	80	77		82	79	76		81
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3973383
5°	3881782
10°	3572214
15°	2581911
20°	1275488
25°	467898
30°	210962
35°	114860
40°	71169
45°	48214
50°	36075
55°	30880
60°	27235
65°	25800
70°	23946
75°	21160
80°	23582
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.3	26.2
10°-20°	1331.0	47.9
20°-30°	463.4	16.7
30°-40°	128.4	4.6
40°-50°	55.8	2.0
50°-60°	32.4	1.2
60°-70°	21.9	0.8
70°-80°	12.0	0.4
80°-90°	3.4	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°	2522.7	90.9
0°-40°	2651.1	95.5
0°-60°	2739.3	98.7
0°-90°	2776.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8053	
5°	7838	728
15°	5055	1331
25°	860	463
35°	191	128
45°	69	56
55°	36	32
65°	22	22
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8053.4
1°	8025.7
2°	7984.3
3°	7942.8
4°	7895.8
5°	7837.8
6°	7766.0
7°	7677.5
8°	7542.1
9°	7368.0
10°	7130.3
11°	6826.3
12°	6458.7
13°	6027.6
14°	5555.0
15°	5054.8
16°	4521.4
17°	3985.2
18°	3446.3
19°	2926.7
20°	2429.3
22.5°	1448.2
25°	859.5
26°	715.8
27°	597.0
28°	505.8
29°	431.1
30°	370.3
32.5°	262.6
35°	190.7
37.5°	143.7
40°	110.5
42.5°	85.7
45°	69.1
47.5°	58.0
50°	47.0
52.5°	41.5
55°	35.9
57.5°	30.4
60°	27.6
62.5°	24.9
65°	22.1
67.5°	19.3



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CANDELA DISTRIBUTION (continued):

	0°
75°	11.1
77.5°	8.3
80°	8.3
82.5°	5.5
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







70°	16.6
72.5°	13.8



(END OF REPORT)