

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: P434378

Luminaire Tested: **LAMR4B408R359027DE01021MMS**

Issue Date: 11/23/2020

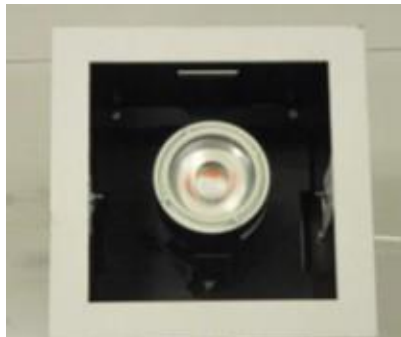
Test Information

Test Method: LM-41-14
Report Number: P434378
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: LAMR4B408R359027DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3067.4 lumens
Efficiency: N/A
Efficacy: 74.5 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

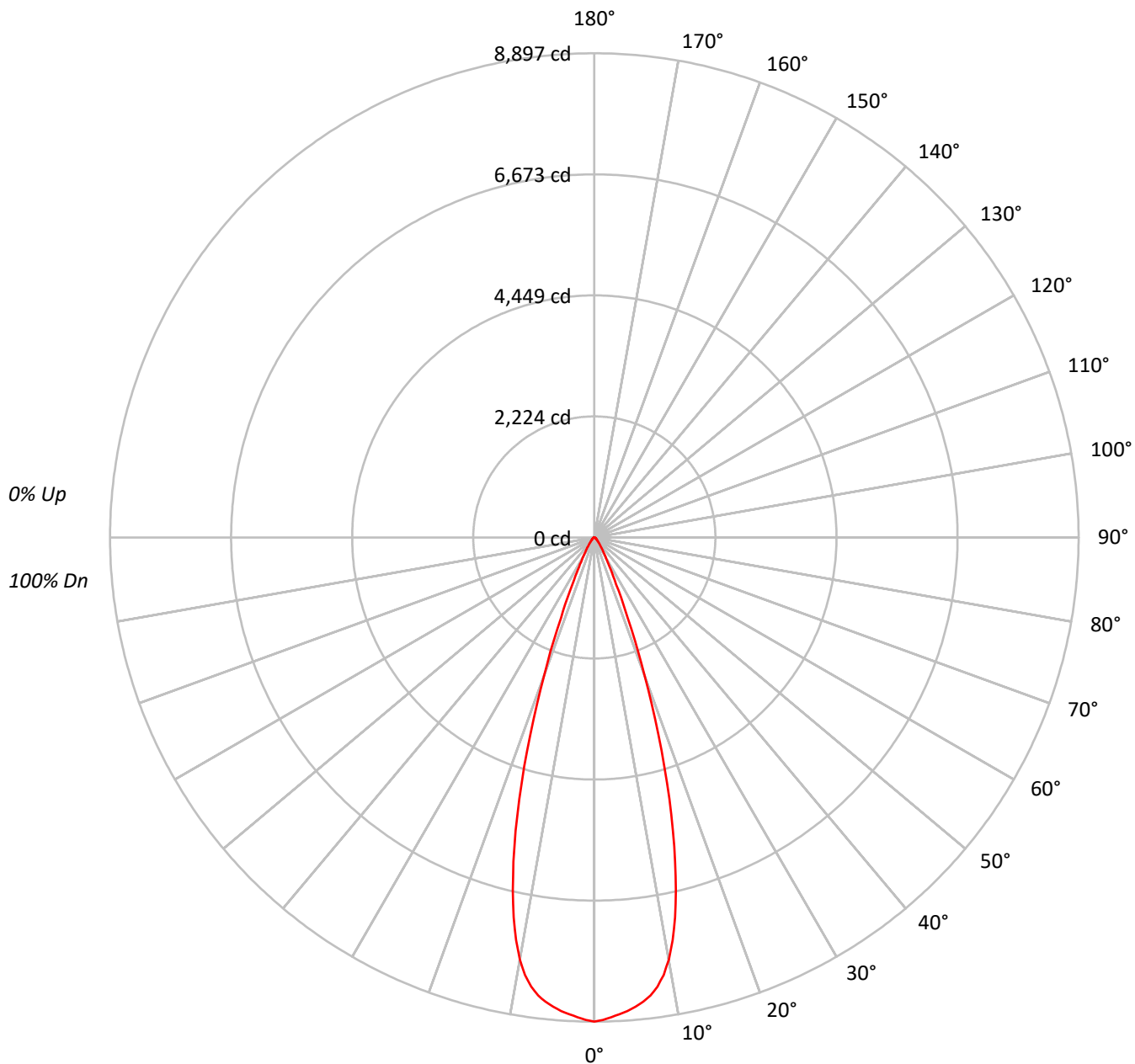
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P434378

CATALOG NUMBER: LAMR4B408R359027DE01021MMS

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°	4389499
5°	4288344
10°	3946354
15°	2852321
20°	1409059
25°	516893
30°	233067
35°	126906
40°	78640
45°	53238
50°	39836
55°	34149
60°	30096
65°	28485
70°	26399
75°	23257
80°	26140
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.6	26.2
10°-20°	1470.4	47.9
20°-30°	511.9	16.7
30°-40°	141.9	4.6
40°-50°	61.6	2.0
50°-60°	35.8	1.2
60°-70°	24.2	0.8
70°-80°	13.3	0.4
80°-90°	3.8	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°	2786.9	90.9
0°-40°	2928.8	95.5
0°-60°	3026.2	98.7
0°-90°	3067.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8897	
5°	8659	805
15°	5584	1470
25°	950	512
35°	211	142
45°	76	62
55°	40	36
65°	24	24
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8896.8
1°	8866.3
2°	8820.5
3°	8774.7
4°	8722.8
5°	8658.7
6°	8579.3
7°	8481.6
8°	8332.0
9°	8139.6
10°	7877.1
11°	7541.2
12°	7135.2
13°	6658.9
14°	6136.8
15°	5584.2
16°	4994.9
17°	4402.6
18°	3807.3
19°	3233.3
20°	2683.7
22.5°	1599.8
25°	949.5
26°	790.8
27°	659.5
28°	558.7
29°	476.3
30°	409.1
32.5°	290.0
35°	210.7
37.5°	158.8
40°	122.1
42.5°	94.6
45°	76.3
47.5°	64.1
50°	51.9
52.5°	45.8
55°	39.7
57.5°	33.6
60°	30.5
62.5°	27.5
65°	24.4
67.5°	21.4



TEST NUMBER: P434378

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CANDELA DISTRIBUTION (continued):

	0°
75°	12.2
77.5°	9.2
80°	9.2
82.5°	6.1
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







70°	18.3
72.5°	15.3



(END OF REPORT)