

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: P432514

Luminaire Tested: **LAM4B208R359040DE010x1MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432514
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: LAM4B208R359040DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 35 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1740.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

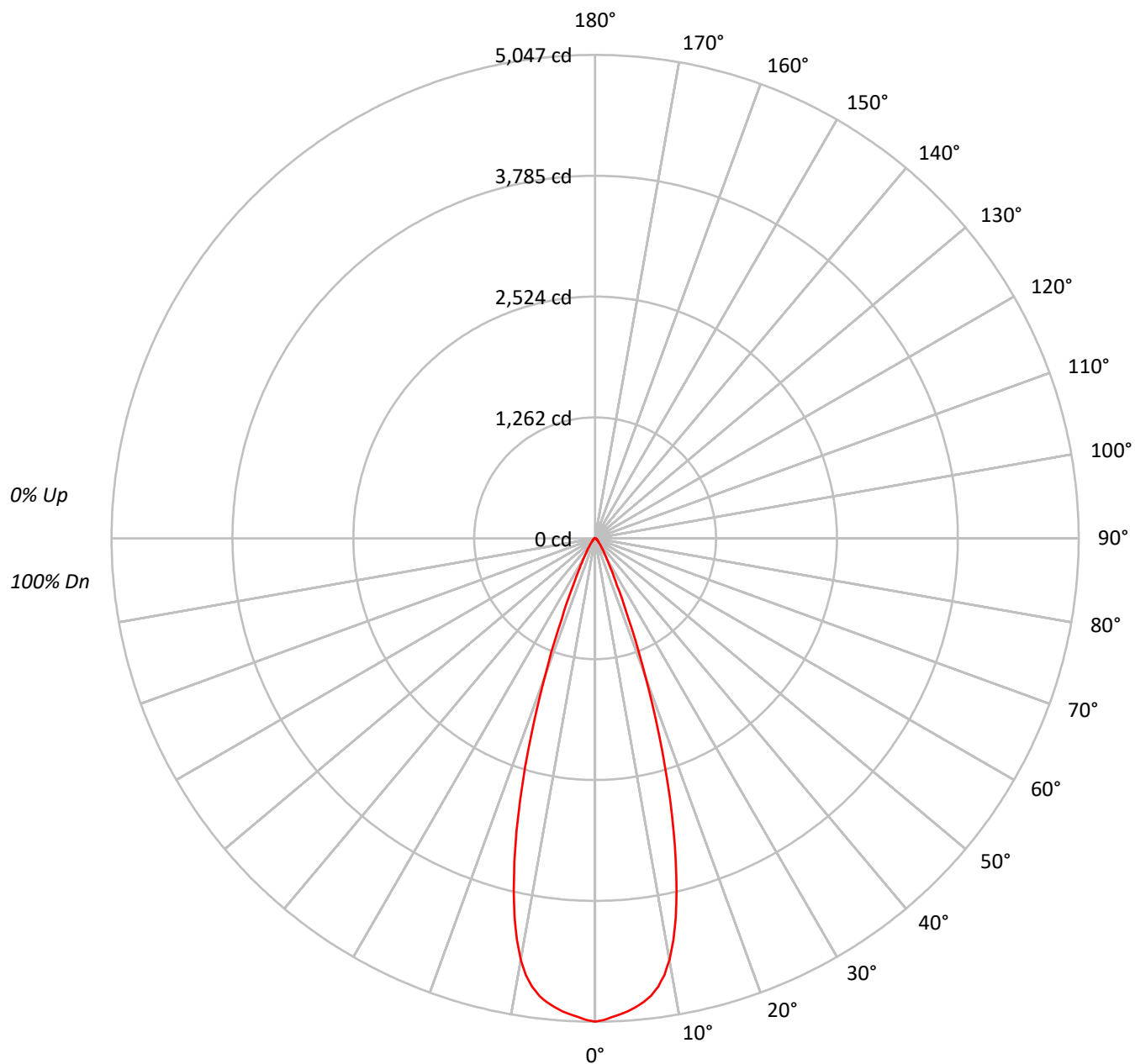
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2489889
5°	2432490
10°	2238477
15°	1617909
20°	799274
25°	293205
30°	132229
35°	71975
40°	44633
45°	30212
50°	22566
55°	19354
60°	17071
65°	16227
70°	15002
75°	13153
80°	14775
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	26.2
10°-20°	834.1	47.9
20°-30°	290.4	16.7
30°-40°	80.5	4.6
40°-50°	35.0	2.0
50°-60°	20.3	1.2
60°-70°	13.7	0.8
70°-80°	7.5	0.4
80°-90°	2.1	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°	1580.8	90.9
0°-40°	1661.3	95.5
0°-60°	1716.6	98.7
0°-90°	1740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5047	
5°	4912	456
15°	3168	834
25°	539	290
35°	120	80
45°	43	35
55°	22	20
65°	14	14
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5046.6
1°	5029.2
2°	5003.3
3°	4977.3
4°	4947.9
5°	4911.5
6°	4866.5
7°	4811.0
8°	4726.2
9°	4617.1
10°	4468.1
11°	4277.6
12°	4047.3
13°	3777.1
14°	3481.0
15°	3167.5
16°	2833.3
17°	2497.3
18°	2159.6
19°	1834.0
20°	1522.3
22.5°	907.5
25°	538.6
26°	448.5
27°	374.1
28°	316.9
29°	270.2
30°	232.1
32.5°	164.5
35°	119.5
37.5°	90.1
40°	69.3
42.5°	53.7
45°	43.3
47.5°	36.4
50°	29.4
52.5°	26.0
55°	22.5
57.5°	19.1
60°	17.3
62.5°	15.6
65°	13.9
67.5°	12.1



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CANDELA DISTRIBUTION (continued):

	0°
75°	6.9
77.5°	5.2
80°	5.2
82.5°	3.5
85°	1.7
87.5°	0.0
90°	0.0



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— 0°-180°







70°	10.4
72.5°	8.7



(END OF REPORT)