

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: P433916

Luminaire Tested: **LAMR4B208R659730DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-22)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R659730DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1405.7 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.97
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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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	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	669467
5°	642407
10°	627190
15°	609672
20°	567782
25°	524460
30°	470805
35°	345844
40°	186778
45°	80310
50°	44749
55°	31311
60°	20130
65°	15293
70°	12550
75°	11056
80°	12502
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	8.7
10°-20°	333.1	23.7
20°-30°	441.5	31.4
30°-40°	349.6	24.9
40°-50°	104.1	7.4
50°-60°	33.3	2.4
60°-70°	13.3	0.9
70°-80°	6.3	0.5
80°-90°	1.8	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°	897.2	63.8
0°-40°	1246.8	88.7
0°-60°	1384.3	98.5
0°-90°	1405.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1357	
5°	1297	123
15°	1194	333
25°	963	442
35°	574	350
45°	115	104
55°	36	33
65°	13	13
75°	6	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1356.9
1°	1348.1
2°	1335.0
3°	1320.4
4°	1307.3
5°	1297.1
6°	1289.8
7°	1282.5
8°	1270.9
9°	1260.7
10°	1251.9
11°	1241.7
12°	1230.1
13°	1219.9
14°	1208.2
15°	1193.6
16°	1177.6
17°	1157.2
18°	1133.9
19°	1109.1
20°	1081.4
21°	1055.2
22°	1027.5
23°	1002.7
24°	982.3
25°	963.4
26°	943.0
27°	922.5
28°	896.3
29°	864.3
30°	826.4
32.5°	711.2
35°	574.2
37.5°	425.6
40°	290.0
42.5°	183.6
45°	115.1
47.5°	77.2
50°	58.3
52.5°	46.6
55°	36.4
57.5°	27.7
60°	20.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.2
70°	8.7
72.5°	7.3
75°	5.8
77.5°	4.4
80°	4.4
82.5°	2.9
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		16.0
65°		13.1



(END OF REPORT)