

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: P433913

Luminaire Tested: **LAMR4B208R659727DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433913
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: LAMR4B208R659727DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 65 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1311.8 lumens
Efficiency: N/A
Efficacy: 63.7 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

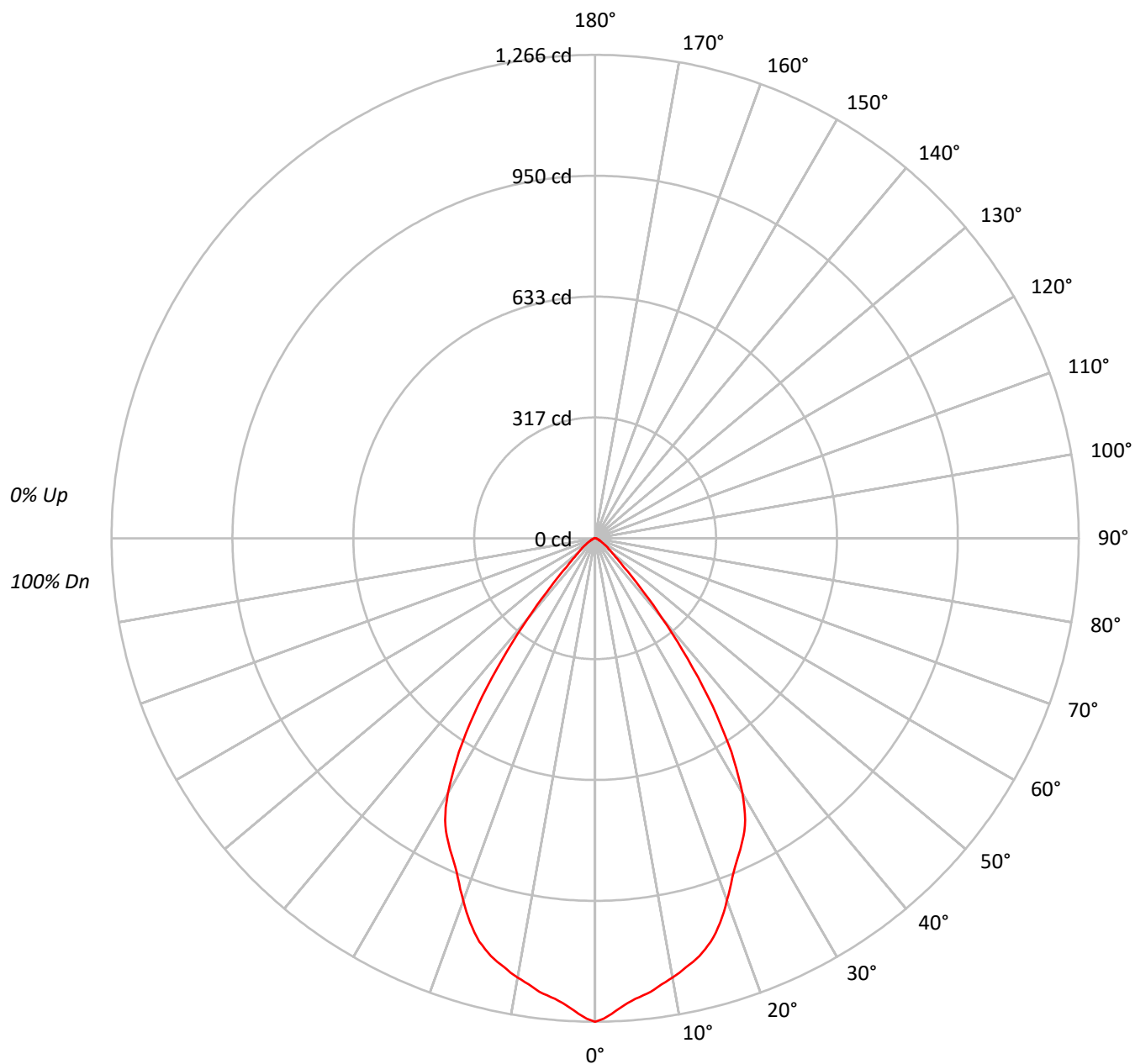
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67		
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62		
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50		
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	624767
5°	599517
10°	585307
15°	568962
20°	529874
25°	489401
30°	439357
35°	322775
40°	174347
45°	74938
50°	41755
55°	29246
60°	18748
65°	14243
70°	11829
75°	10294
80°	11649
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	8.7
10°-20°	310.8	23.7
20°-30°	412.0	31.4
30°-40°	326.3	24.9
40°-50°	97.2	7.4
50°-60°	31.1	2.4
60°-70°	12.4	0.9
70°-80°	5.9	0.5
80°-90°	1.7	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°	837.2	63.8
0°-40°	1163.6	88.7
0°-60°	1291.8	98.5
0°-90°	1311.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1266	
5°	1210	114
15°	1114	311
25°	899	412
35°	536	326
45°	107	97
55°	34	31
65°	12	12
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1266.3
1°	1258.1
2°	1245.9
3°	1232.3
4°	1220.0
5°	1210.5
6°	1203.7
7°	1196.9
8°	1186.0
9°	1176.5
10°	1168.3
11°	1158.8
12°	1147.9
13°	1138.4
14°	1127.5
15°	1113.9
16°	1099.0
17°	1079.9
18°	1058.2
19°	1035.0
20°	1009.2
21°	984.7
22°	958.9
23°	935.8
24°	916.7
25°	899.0
26°	880.0
27°	860.9
28°	836.5
29°	806.5
30°	771.2
32.5°	663.7
35°	535.9
37.5°	397.2
40°	270.7
42.5°	171.4
45°	107.4
47.5°	72.1
50°	54.4
52.5°	43.5
55°	34.0
57.5°	25.8
60°	19.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	9.5
70°	8.2
72.5°	6.8
75°	5.4
77.5°	4.1
80°	4.1
82.5°	2.7
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		15.0
65°		12.2



(END OF REPORT)