

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: P433643

Luminaire Tested: **LAMR4B208R109040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R109040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1719.6 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

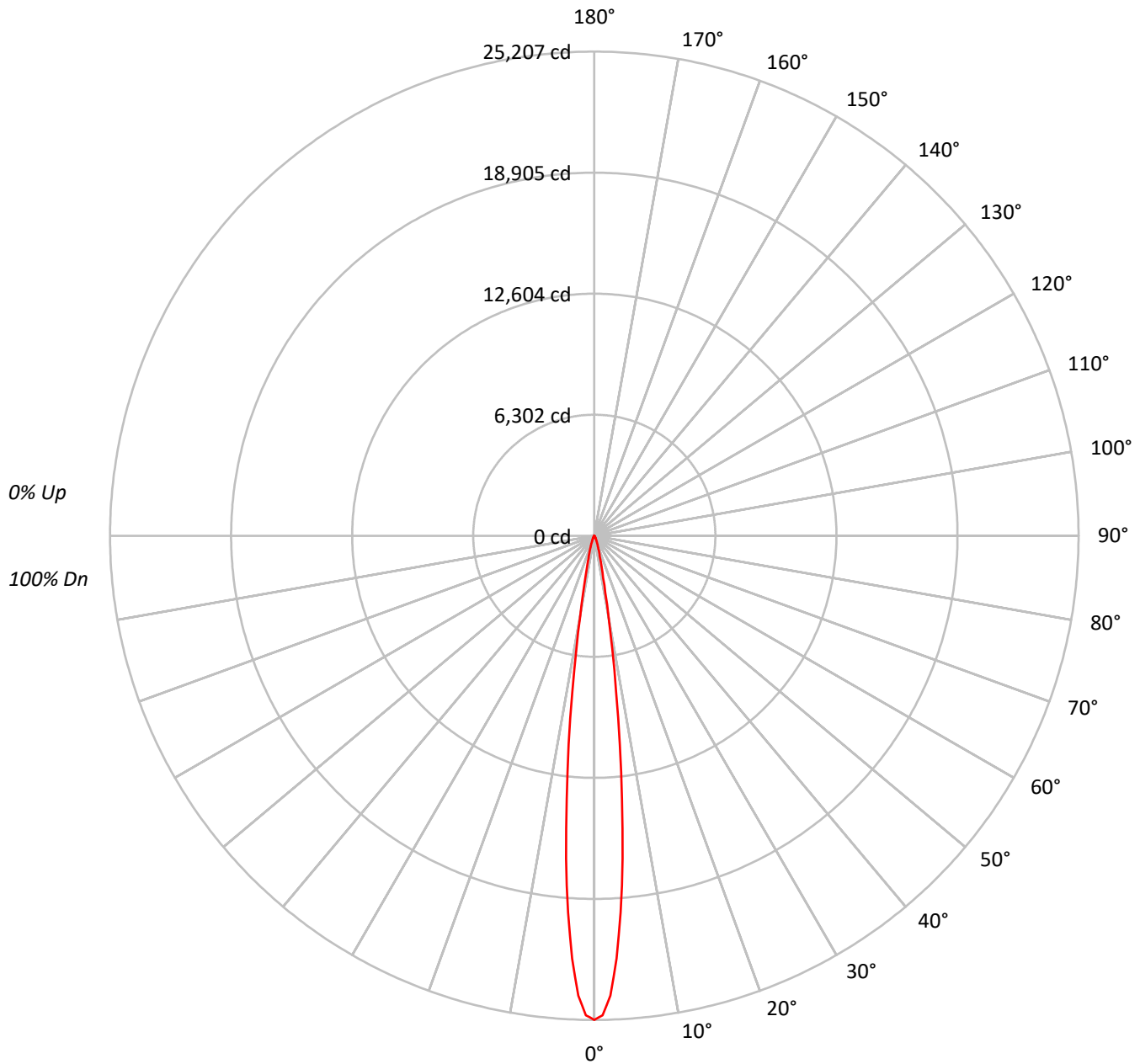
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	116	114	112	111		113	112	110	109		108	107	106			104	103	103			98
2	113	110	107	105		111	108	106	104		105	103	102			102	101	99			96
3	110	106	103	101		108	105	102	100		102	100	98			100	98	97			94
4	108	103	100	97		106	102	99	97		100	98	96			98	96	95			93
5	105	101	97	95		104	100	97	94		98	96	94			97	95	93			91
6	103	98	95	93		102	98	95	92		97	94	92			95	93	91			90
7	102	97	93	91		101	96	93	91		95	92	90			94	92	90			89
8	100	95	92	89		99	94	91	89		94	91	89			93	90	89			88
9	98	93	90	88		98	93	90	88		92	90	88			92	89	88			87
10	97	92	89	87		96	92	89	87		91	88	87			90	88	86			86

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12436816
5°	8354017
10°	2132066
15°	551953
20°	247296
25°	117641
30°	63123
35°	36741
40°	28532
45°	15490
50°	12742
55°	9548
60°	10953
65°	6421
70°	7934
75°	10484
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.2	67.4
10°-20°	369.1	21.5
20°-30°	107.8	6.3
30°-40°	41.0	2.4
40°-50°	19.5	1.1
50°-60°	11.7	0.7
60°-70°	6.1	0.4
70°-80°	5.1	0.3
80°-90°	0.0	0.0
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°	1636.1	95.1
0°-40°	1677.1	97.5
0°-60°	1708.4	99.3
0°-90°	1719.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	25207	
5°	16868	###
15°	1081	369
25°	216	108
35°	61	41
45°	22	20
55°	11	12
65°	6	6
75°	6	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	25207.4
1°	24963.6
2°	23955.1
3°	22032.3
4°	19655.0
5°	16867.8
6°	13786.8
7°	10944.1
8°	8173.4
9°	5956.9
10°	4255.7
11°	3014.5
12°	2233.1
13°	1695.6
14°	1346.5
15°	1080.6
17.5°	703.7
20°	471.0
22.5°	315.9
25°	216.1
27.5°	149.6
30°	110.8
32.5°	77.6
35°	61.0
37.5°	49.9
40°	44.3
42.5°	33.2
45°	22.2
47.5°	16.6
50°	16.6
52.5°	16.6
55°	11.1
57.5°	11.1
60°	11.1
62.5°	5.5
65°	5.5
67.5°	5.5
70°	5.5
72.5°	5.5
75°	5.5
77.5°	5.5
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)