

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: P433681

Luminaire Tested: **LAMR4B208R209027DE010x1MB**

Issue Date: 11/23/2020

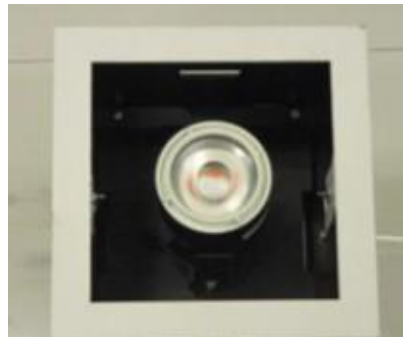
Test Information

Test Method: LM-41-14
Report Number: P433681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R209027DE010x1MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1537.4 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

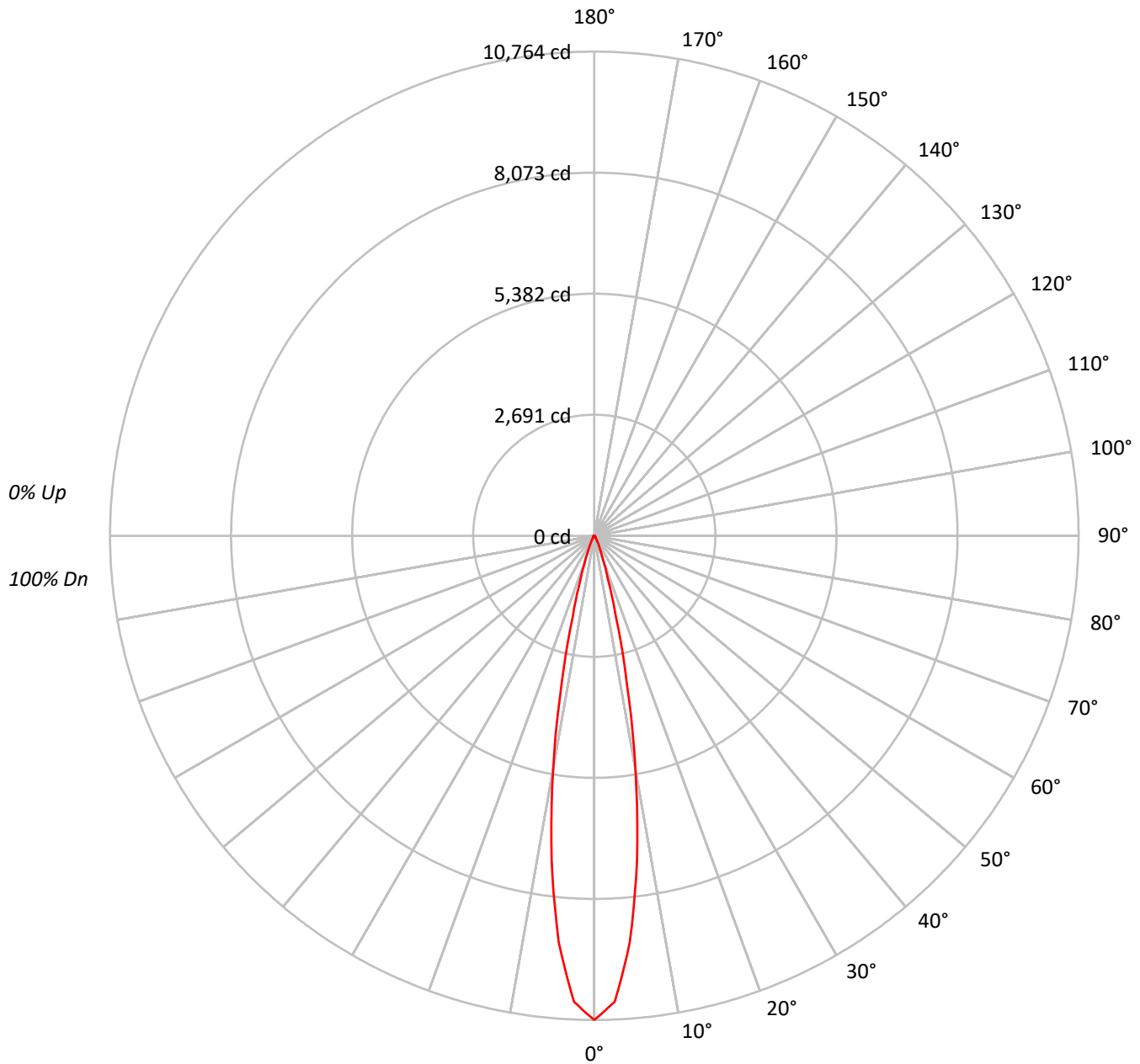
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	111	110	113	111	109	108	107	106	105		103	102	102		100
2	112	108	105	103	110	106	104	102	103	101	100		101	99	97		98
3	108	104	100	98	107	103	100	97	100	98	96		98	96	94		96
4	105	100	97	94	104	99	96	93	97	94	92		96	93	91		94
5	103	97	93	90	101	96	93	90	95	92	89		93	91	89		92
6	100	94	90	88	99	94	90	87	92	89	87		91	88	86		90
7	98	92	88	85	97	91	88	85	90	87	85		89	86	84		88
8	96	90	86	83	95	89	86	83	88	85	83		87	85	82		87
9	94	88	84	81	93	87	84	81	86	83	81		86	83	81		85
10	92	86	82	80	91	85	82	80	85	82	79		84	81	79		83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5310787
5°	4488975
10°	2636664
15°	944082
20°	312401
25°	124337
30°	59420
35°	33970
40°	24539
45°	20653
50°	23794
55°	19440
60°	9769
65°	8172
70°	10098
75°	10675
80°	7956
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.2	48.3
10°-20°	578.8	37.6
20°-30°	120.1	7.8
30°-40°	37.9	2.5
40°-50°	24.4	1.6
50°-60°	19.6	1.3
60°-70°	7.7	0.5
70°-80°	5.7	0.4
80°-90°	1.1	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°	1441.1	93.7
0°-40°	1479.0	96.2
0°-60°	1522.9	99.1
0°-90°	1537.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10764	
5°	9064	742
15°	1848	579
25°	228	120
35°	56	38
45°	30	24
55°	23	20
65°	7	8
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10764.1
2.5°	10369.3
5°	9063.8
7.5°	7262.1
10°	5262.9
12.5°	3320.2
15°	1848.3
17.5°	1016.5
20°	595.0
22.5°	363.7
25°	228.4
27.5°	150.9
30°	104.3
32.5°	73.3
35°	56.4
37.5°	45.1
40°	38.1
42.5°	32.4
45°	29.6
47.5°	29.6
50°	31.0
52.5°	29.6
55°	22.6
57.5°	15.5
60°	9.9
62.5°	8.5
65°	7.0
67.5°	7.0
70°	7.0
72.5°	7.0
75°	5.6
77.5°	4.2
80°	2.8
82.5°	1.4
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)