

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: P433938

Luminaire Tested: **LAMR4B208R709727DE010x1MW**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-14)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B208R709727DE010x1MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1320.5 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

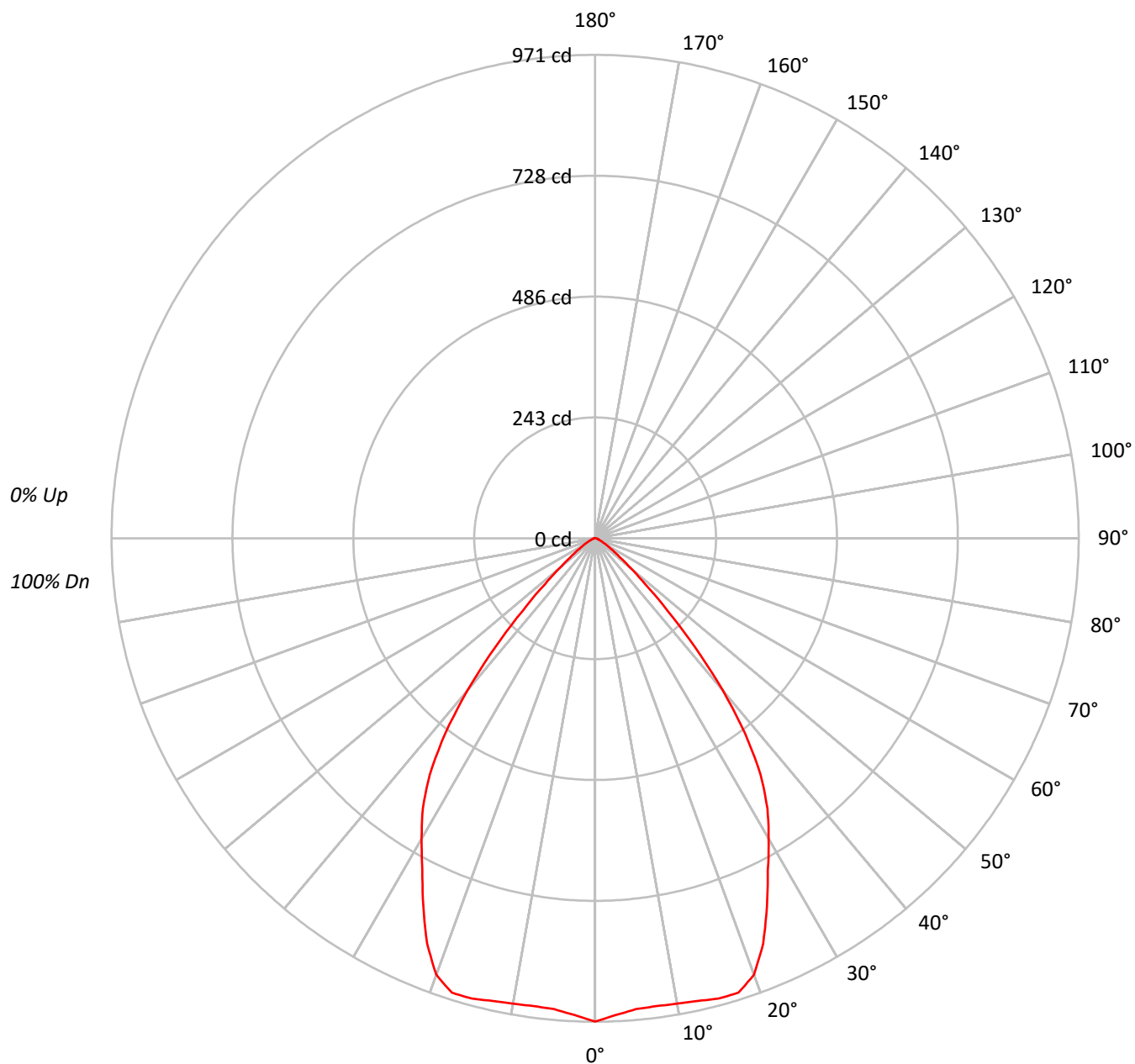
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	478924
5°	470006
10°	475440
15°	488871
20°	489708
25°	444272
30°	396971
35°	348674
40°	256723
45°	143805
50°	70769
55°	39654
60°	24077
65°	15877
70°	11685
75°	10294
80°	7671
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	6.9
10°-20°	269.7	20.4
20°-30°	374.3	28.3
30°-40°	352.1	26.7
40°-50°	168.1	12.7
50°-60°	44.4	3.4
60°-70°	14.0	1.1
70°-80°	5.7	0.4
80°-90°	1.5	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°	734.7	55.6
0°-40°	1086.8	82.3
0°-60°	1299.3	98.4
0°-90°	1320.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	971	
5°	949	91
15°	957	270
25°	816	374
35°	579	352
45°	206	168
55°	46	44
65°	14	14
75°	5	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	970.7
2.5°	958.5
5°	949.0
7.5°	947.6
10°	949.0
12.5°	951.7
15°	957.1
17.5°	957.1
20°	932.7
22.5°	881.2
25°	816.1
27.5°	751.0
30°	696.8
32.5°	643.9
35°	578.9
37.5°	494.8
40°	398.6
42.5°	296.9
45°	206.1
47.5°	136.9
50°	92.2
52.5°	63.7
55°	46.1
57.5°	32.5
60°	24.4
62.5°	17.6
65°	13.6
67.5°	9.5
70°	8.1
72.5°	6.8
75°	5.4
77.5°	4.1
80°	2.7
82.5°	2.7
85°	1.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)