

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: P432683

Luminaire Tested: **LAM4B208R709040DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432683
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: LAM4B208R709040DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.5 lumens
Efficiency: N/A
Efficacy: 82.8 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

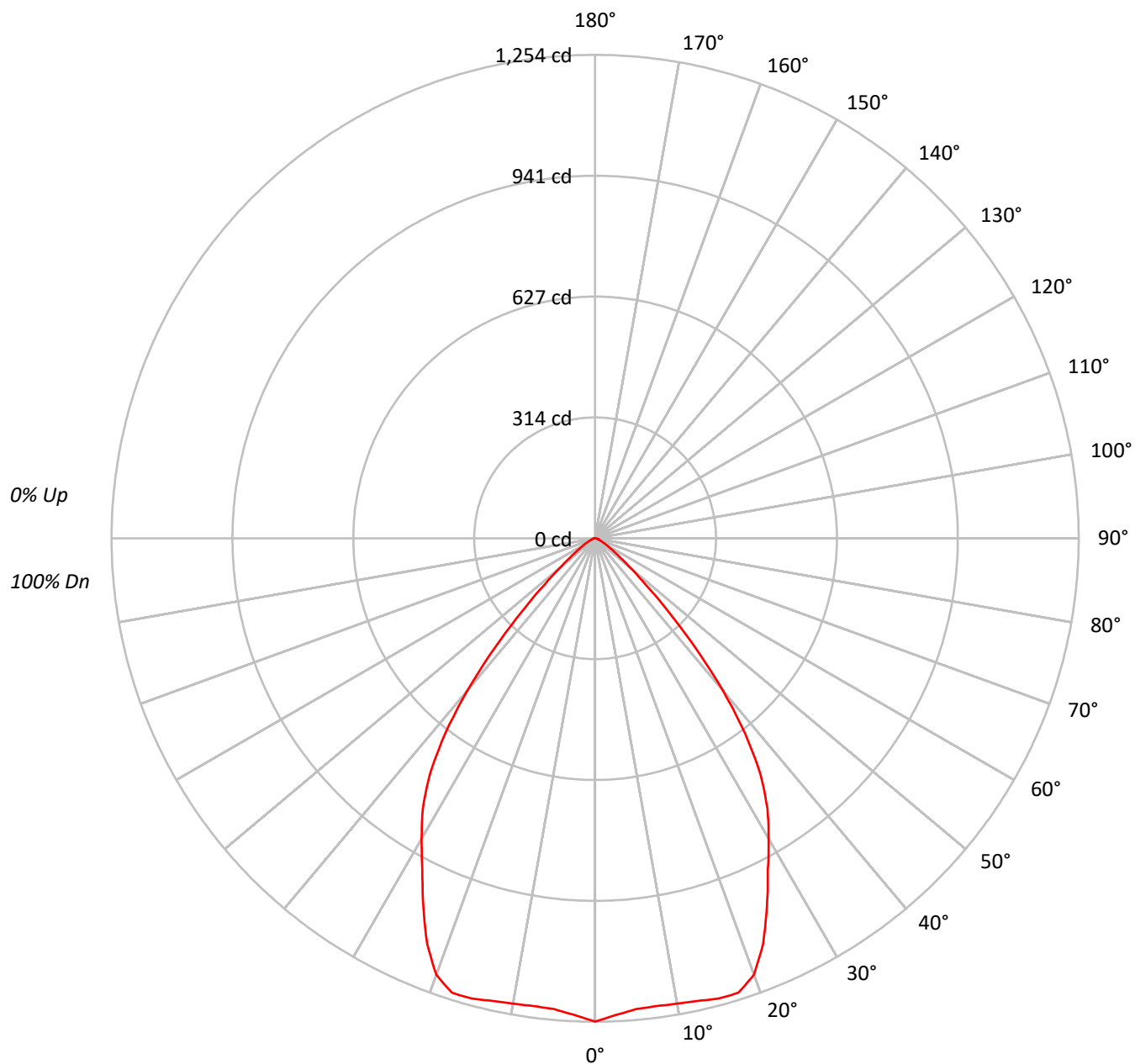
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	52	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°	618501
5°	606996
10°	614014
15°	631380
20°	632467
25°	573781
30°	512678
35°	450283
40°	331498
45°	185670
50°	91417
55°	51181
60°	31083
65°	20430
70°	15147
75°	13344
80°	9944
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	6.9
10°-20°	348.3	20.4
20°-30°	483.3	28.3
30°-40°	454.7	26.7
40°-50°	217.1	12.7
50°-60°	57.4	3.4
60°-70°	18.1	1.1
70°-80°	7.4	0.4
80°-90°	1.9	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°	948.8	55.6
0°-40°	1403.6	82.3
0°-60°	1678.0	98.4
0°-90°	1705.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1254	
5°	1226	117
15°	1236	348
25°	1054	483
35°	748	455
45°	266	217
55°	60	57
65°	18	18
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1253.6
2.5°	1237.8
5°	1225.6
7.5°	1223.8
10°	1225.6
12.5°	1229.1
15°	1236.1
17.5°	1236.1
20°	1204.6
22.5°	1138.0
25°	1054.0
27.5°	969.9
30°	899.9
32.5°	831.6
35°	747.6
37.5°	639.0
40°	514.7
42.5°	383.4
45°	266.1
47.5°	176.8
50°	119.1
52.5°	82.3
55°	59.5
57.5°	42.0
60°	31.5
62.5°	22.8
65°	17.5
67.5°	12.3
70°	10.5
72.5°	8.8
75°	7.0
77.5°	5.3
80°	3.5
82.5°	3.5
85°	1.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)