

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: P434510

Luminaire Tested: **LAMR4B408R609050DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2009-969-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B408R609050DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3511.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.89
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

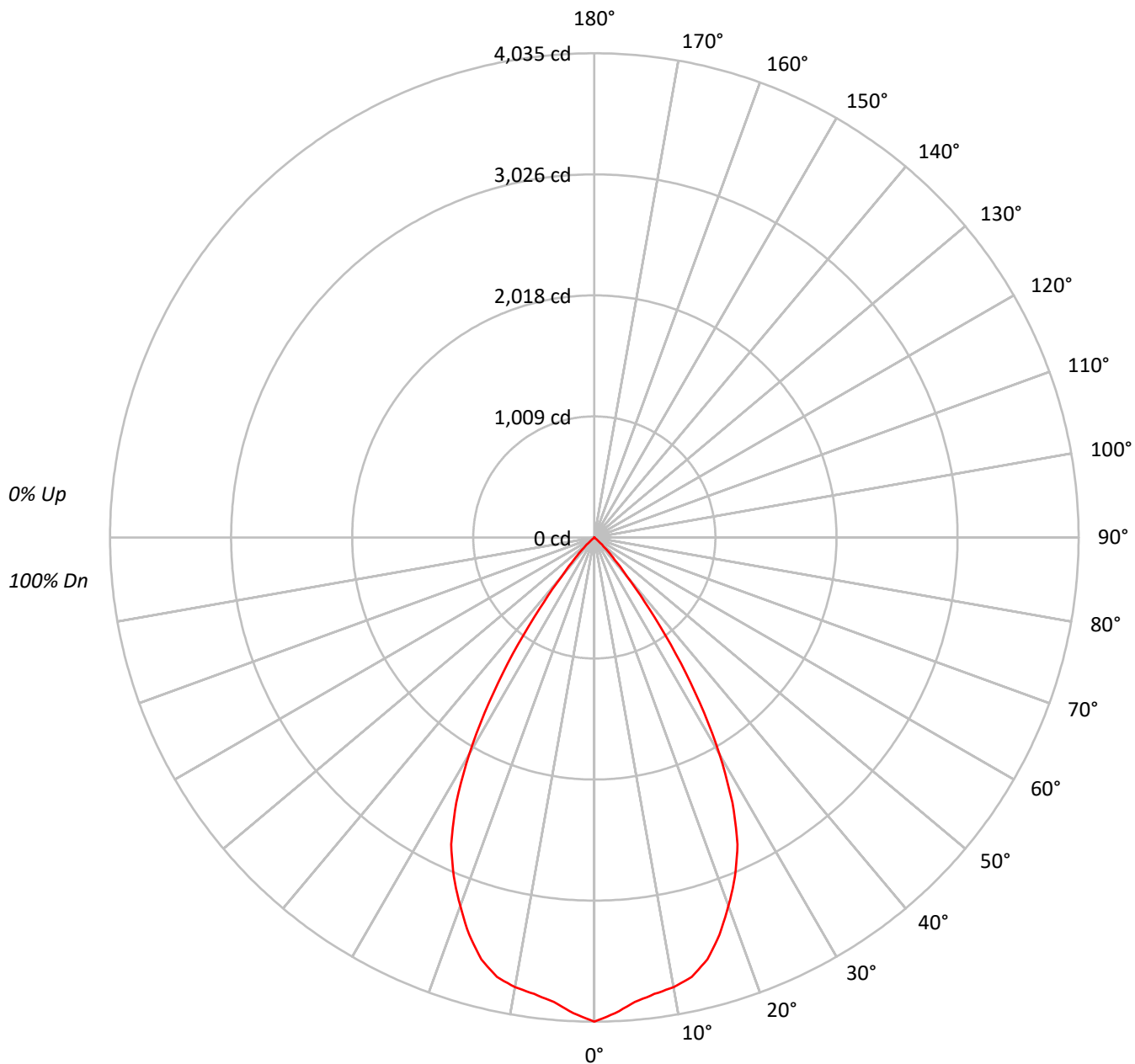
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105		105	103	102			101	100	99			98
2	108	104	100	96	106	102	98	95		99	96	93			96	93	91			93
3	103	97	92	88	101	96	91	88		93	89	86			91	87	85			88
4	98	91	85	81	96	90	85	81		88	83	80			86	82	79			84
5	93	85	80	75	92	84	79	75		83	78	74			81	77	74			79
6	89	80	74	70	87	79	74	70		78	73	69			76	72	69			75
7	84	75	70	66	83	75	69	65		74	69	65			72	68	65			71
8	80	71	65	61	79	71	65	61		70	65	61			69	64	61			68
9	77	67	62	58	76	67	61	58		66	61	57			65	60	57			64
10	73	64	58	54	72	63	58	54		62	58	54			62	57	54			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1990885
5°	1924101
10°	1906170
15°	1858897
20°	1715527
25°	1536306
30°	1188805
35°	712166
40°	273597
45°	99987
50°	3915
55°	2925
60°	3355
65°	1985
70°	2452
75°	3241
80°	4830
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	10.5
10°-20°	1012.4	28.8
20°-30°	1263.0	36.0
30°-40°	735.8	21.0
40°-50°	122.8	3.5
50°-60°	3.2	0.1
60°-70°	2.3	0.1
70°-80°	1.8	0.1
80°-90°	0.7	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°	2644.4	75.3
0°-40°	3380.2	96.3
0°-60°	3506.2	99.9
0°-90°	3511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4035	
5°	3885	369
15°	3639	1012
25°	2822	1263
35°	1182	736
45°	143	123
55°	3	3
65°	2	2
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4035.2
2.5°	3968.6
5°	3885.0
7.5°	3837.3
10°	3804.8
12.5°	3751.9
15°	3639.3
17.5°	3470.4
20°	3267.4
22.5°	3060.9
25°	2822.1
27.5°	2491.1
30°	2086.7
32.5°	1634.5
35°	1182.4
37.5°	745.6
40°	424.8
42.5°	249.1
45°	143.3
47.5°	49.5
50°	5.1
52.5°	3.4
55°	3.4
57.5°	3.4
60°	3.4
62.5°	3.4
65°	1.7
67.5°	1.7
70°	1.7
72.5°	1.7
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)