

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: P432989

Luminaire Tested: **LAM4B308R709030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432989
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: LAM4B308R709030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 70 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2329.7 lumens
Efficiency: N/A
Efficacy: 73.0 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

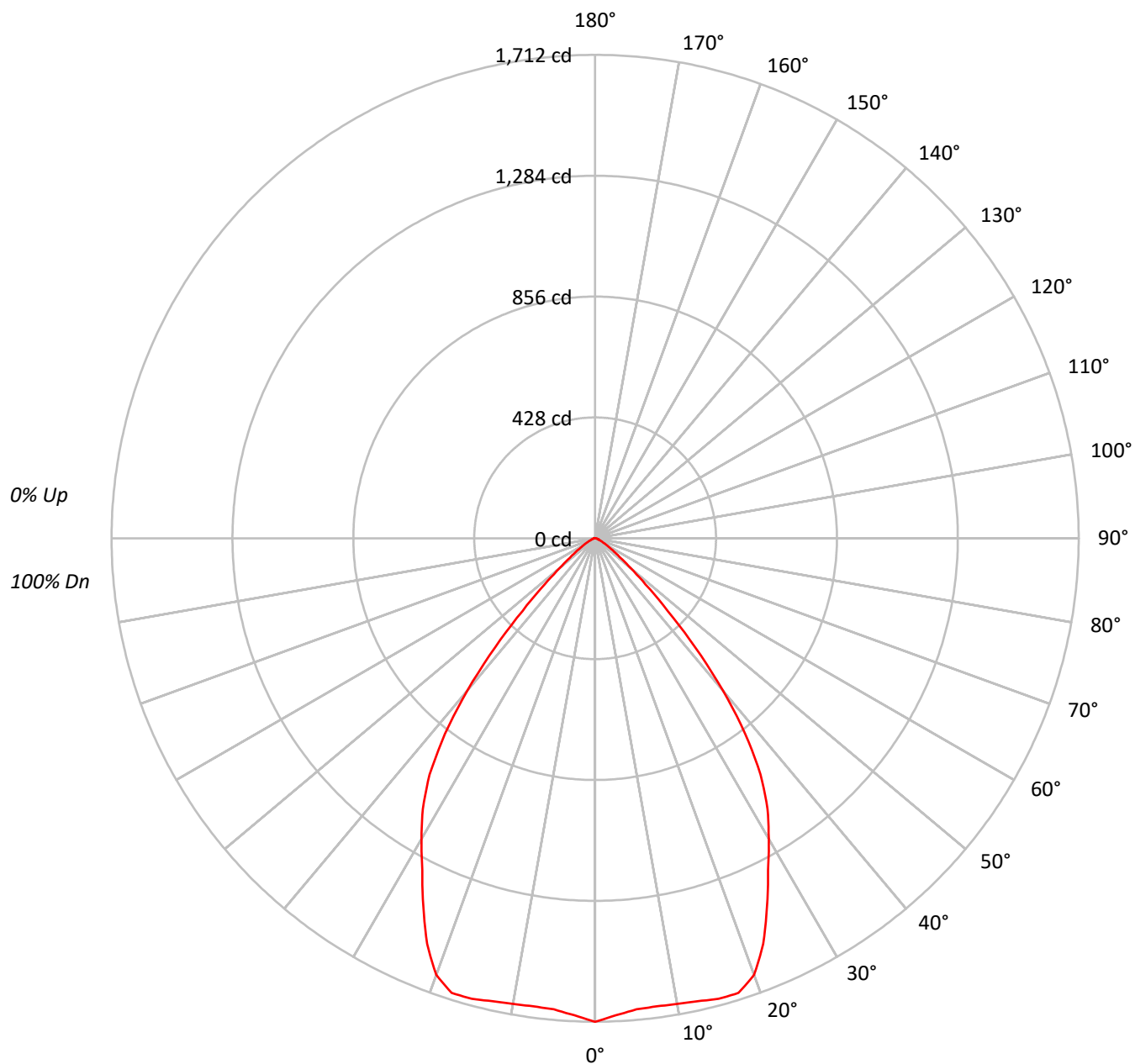
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	844863
5°	829171
10°	838759
15°	862459
20°	863959
25°	783804
30°	700339
35°	615074
40°	452839
45°	253630
50°	124806
55°	69933
60°	42431
65°	27902
70°	20628
75°	18300
80°	13638
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	6.9
10°-20°	475.8	20.4
20°-30°	660.3	28.3
30°-40°	621.2	26.7
40°-50°	296.5	12.7
50°-60°	78.4	3.4
60°-70°	24.7	1.1
70°-80°	10.1	0.4
80°-90°	2.6	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°	1296.1	55.6
0°-40°	1917.3	82.3
0°-60°	2292.2	98.4
0°-90°	2329.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1712	
5°	1674	160
15°	1688	476
25°	1440	660
35°	1021	621
45°	364	297
55°	81	78
65°	24	25
75°	10	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1712.4
2.5°	1690.9
5°	1674.2
7.5°	1671.8
10°	1674.2
12.5°	1678.9
15°	1688.5
17.5°	1688.5
20°	1645.5
22.5°	1554.6
25°	1439.8
27.5°	1325.0
30°	1229.3
32.5°	1136.0
35°	1021.2
37.5°	873.0
40°	703.1
42.5°	523.8
45°	363.5
47.5°	241.6
50°	162.6
52.5°	112.4
55°	81.3
57.5°	57.4
60°	43.0
62.5°	31.1
65°	23.9
67.5°	16.7
70°	14.3
72.5°	12.0
75°	9.6
77.5°	7.2
80°	4.8
82.5°	4.8
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)