

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: P433191

Luminaire Tested: **LAM4B408R459050DE01021MW**

Issue Date: 11/23/2020

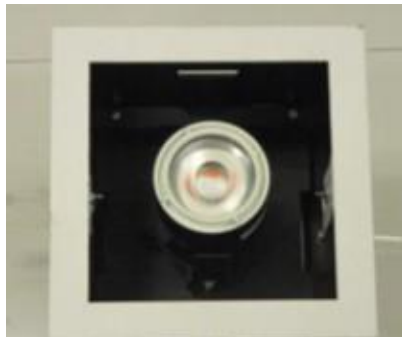
Test Information

Test Method: LM-41-14
Report Number: P433191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B408R459050DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3722.4 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

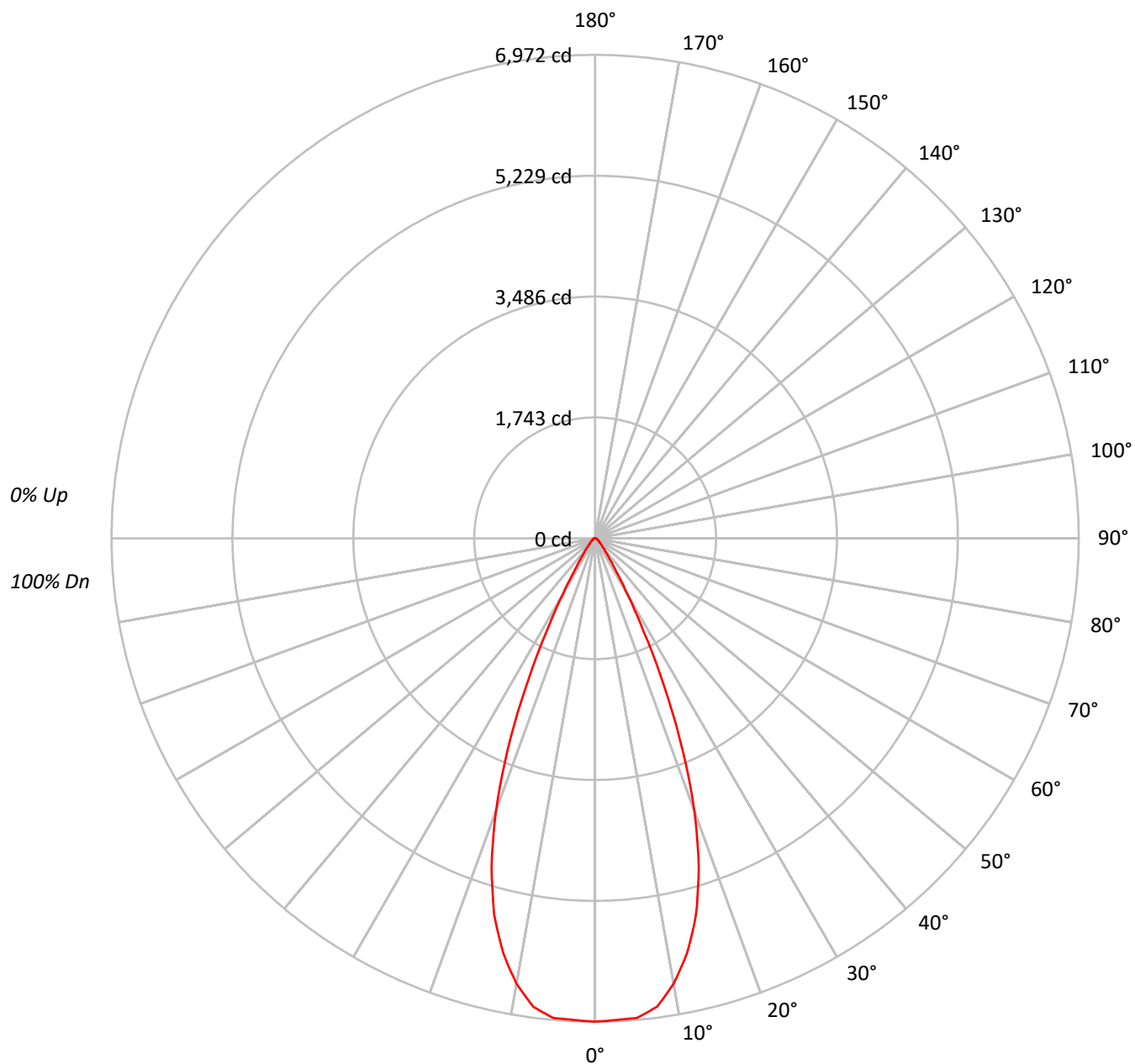
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89		
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76		
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66		
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63		
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3439842
5°	3438669
10°	3268463
15°	2871066
20°	2196362
25°	1282188
30°	524813
35°	221949
40°	120955
45°	78147
50°	61021
55°	52815
60°	42727
65°	33739
70°	31303
75°	27450
80°	30686
85°	20379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.7	17.5
10°-20°	1530.3	41.1
20°-30°	1078.2	29.0
30°-40°	265.4	7.1
40°-50°	92.6	2.5
50°-60°	54.8	1.5
60°-70°	30.3	0.8
70°-80°	16.7	0.4
80°-90°	4.4	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°	3258.2	87.5
0°-40°	3523.6	94.7
0°-60°	3671.0	98.6
0°-90°	3722.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3722.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6972	
5°	6943	650
15°	5621	1530
25°	2355	1078
35°	368	265
45°	112	93
55°	61	55
65°	29	30
75°	14	17
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6972.0
2.5°	6953.9
5°	6943.1
7.5°	6816.6
10°	6524.0
12.5°	6126.7
15°	5620.9
17.5°	4967.1
20°	4183.2
22.5°	3283.7
25°	2355.3
27.5°	1520.8
30°	921.2
32.5°	559.9
35°	368.5
37.5°	260.1
40°	187.8
42.5°	144.5
45°	112.0
47.5°	93.9
50°	79.5
52.5°	68.6
55°	61.4
57.5°	54.2
60°	43.3
62.5°	36.1
65°	28.9
67.5°	25.3
70°	21.7
72.5°	18.1
75°	14.4
77.5°	14.4
80°	10.8
82.5°	7.2
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)