

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: P434289

Luminaire Tested: **LAMR4B408R159035DE01021MW**

Issue Date: 11/23/2020

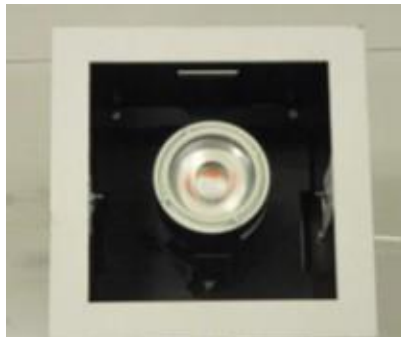
Test Information

Test Method: LM-41-14
Report Number: P434289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-585-6)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B408R159035DE01021MW
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 15 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3317.5 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

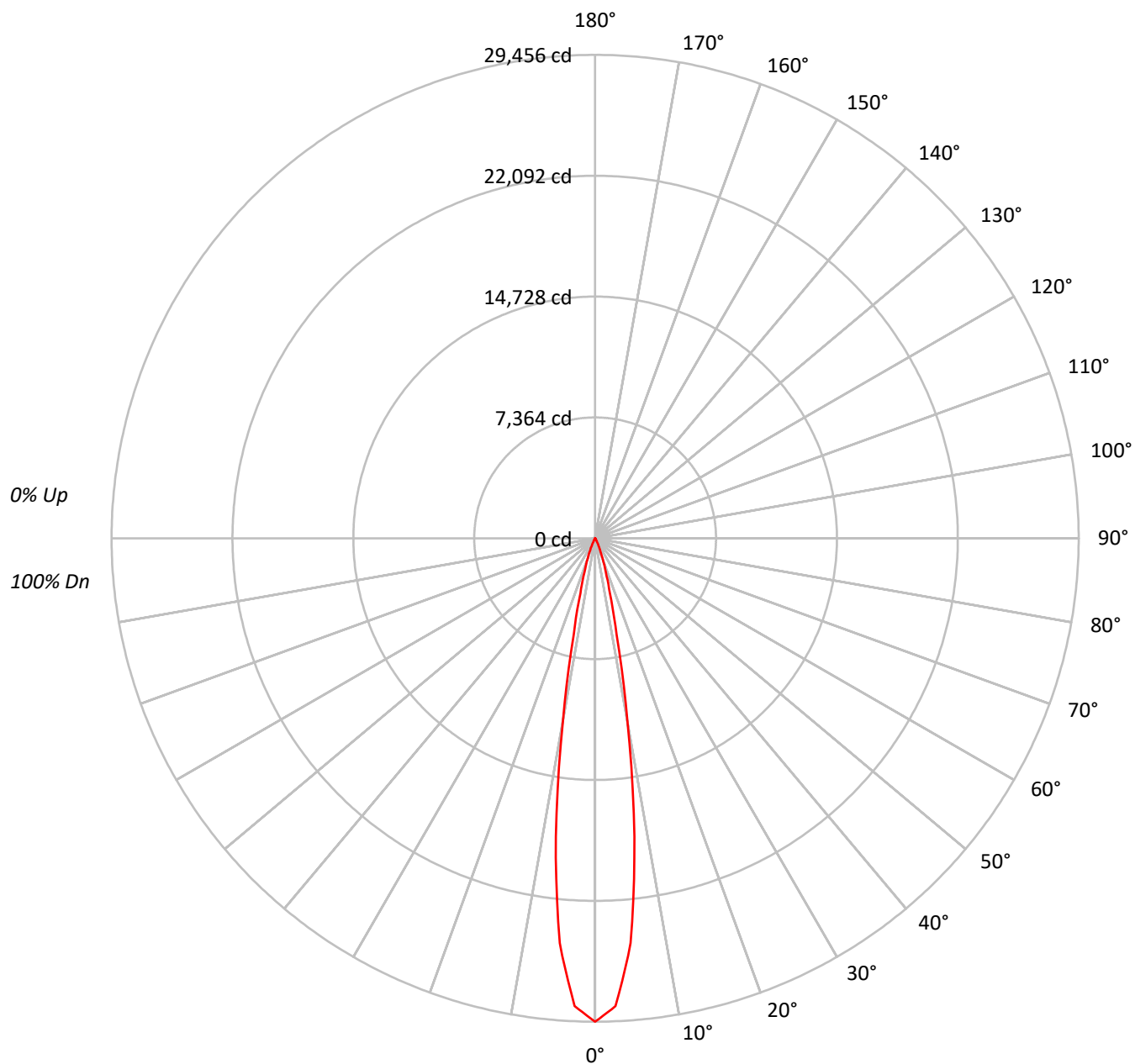
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109		108	107	106			104	103	103			101
2	113	110	107	105	111	108	106	104		105	103	102			102	101	100			100
3	110	106	103	101	108	105	102	100		103	100	98			100	99	97			98
4	108	103	100	97	106	102	99	97		100	98	96			98	96	95			97
5	105	101	97	95	104	100	97	94		98	96	94			97	95	93			95
6	103	98	95	92	102	98	94	92		96	94	92			95	93	91			94
7	101	96	93	90	100	96	92	90		95	92	90			94	91	89			93
8	99	94	91	89	99	94	91	89		93	90	88			92	90	88			91
9	98	92	89	87	97	92	89	87		91	89	87			91	88	87			90
10	96	91	88	86	95	91	88	86		90	87	85			89	87	85			89

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4745506
5°	4005024
10°	1839968
15°	573747
20°	233797
25°	76703
30°	23774
35°	5035
40°	1262
45°	0
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1911.0	57.6
10°-20°	1138.9	34.3
20°-30°	241.3	7.3
30°-40°	25.4	0.8
40°-50°	0.8	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	3291.3	99.2
0°-40°	3316.7	100.0
0°-60°	3317.5	100.0
0°-90°	3317.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3317.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29456	
5°	24765	###
15°	3440	1139
25°	432	241
35°	26	25
45°	0	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	29456.2
2.5°	28525.6
5°	24765.3
7.5°	18333.5
10°	11247.5
12.5°	6001.9
15°	3440.0
17.5°	2160.5
20°	1363.7
22.5°	804.4
25°	431.5
27.5°	243.6
30°	127.8
32.5°	64.6
35°	25.6
37.5°	13.5
40°	6.0
42.5°	1.5
45°	0.0
47.5°	0.0
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)