

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: P433964

Luminaire Tested: **LAMR4B308R109730DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2008-908-1)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B308R109730DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 10 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171.2 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

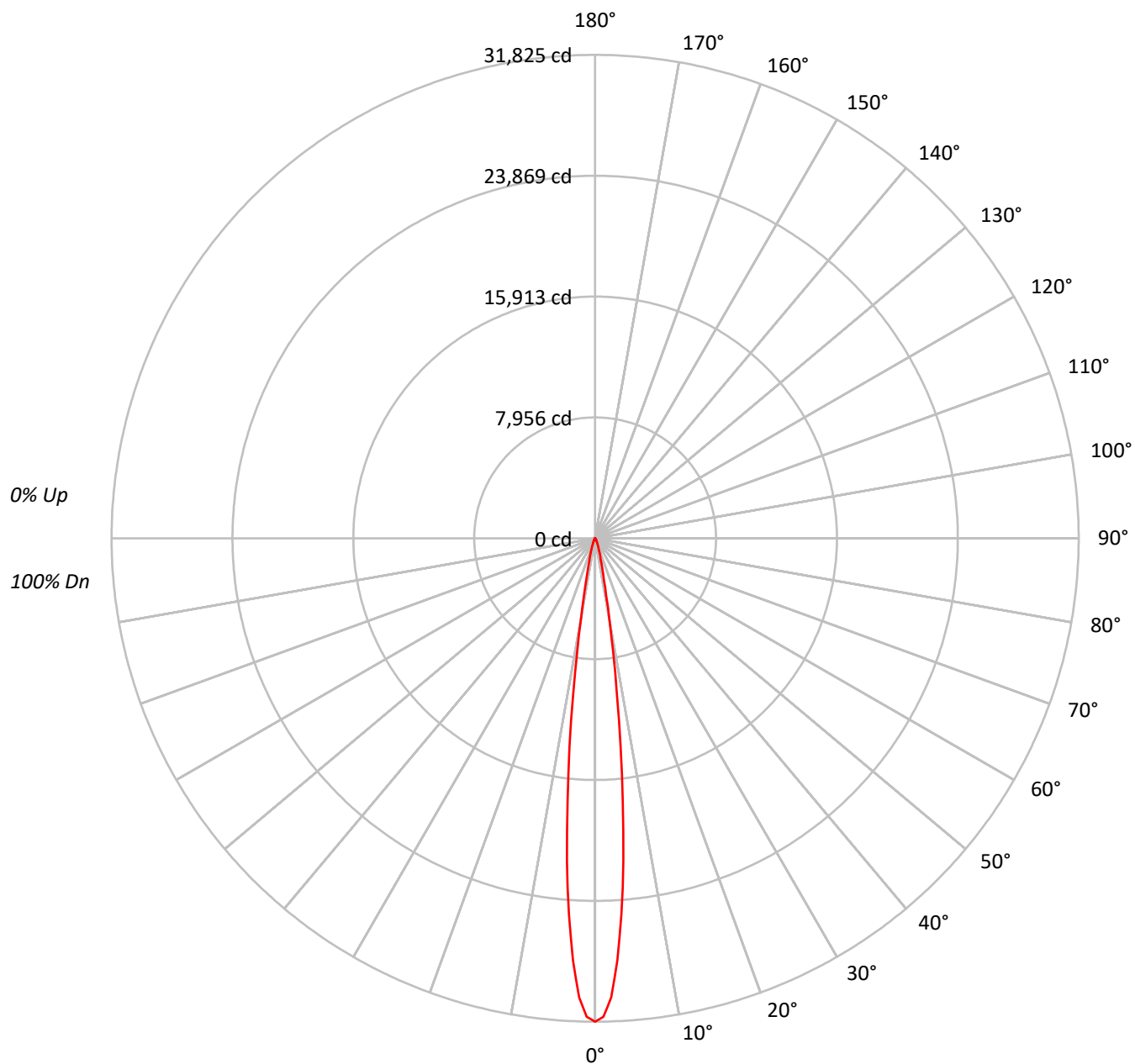
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	116	114	112	111		113	112	110	109		108	107	106			104	103	103			98
2	113	110	107	105		111	108	106	104		105	103	102			102	101	99			96
3	110	106	103	101		108	105	102	100		102	100	98			100	98	97			94
4	108	103	100	97		106	102	99	97		100	98	96			98	96	95			93
5	105	101	97	95		104	100	97	94		98	96	94			97	95	93			91
6	103	98	95	93		102	98	95	92		97	94	92			95	93	91			90
7	102	97	93	91		101	96	93	91		95	92	90			94	92	90			89
8	100	95	92	89		99	94	91	89		94	91	89			93	90	89			88
9	98	93	90	88		98	93	90	88		92	90	88			92	89	88			87
10	97	92	89	87		96	92	89	87		91	88	87			90	88	86			86

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15701853
5°	10547195
10°	2691823
15°	696812
20°	312243
25°	148508
30°	79702
35°	46378
40°	36067
45°	19537
50°	16119
55°	12043
60°	13815
65°	8172
70°	10098
75°	13344
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1463.6	67.4
10°-20°	466.0	21.5
20°-30°	136.1	6.3
30°-40°	51.8	2.4
40°-50°	24.7	1.1
50°-60°	14.8	0.7
60°-70°	7.8	0.4
70°-80°	6.5	0.3
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°	2065.6	95.1
0°-40°	2117.4	97.5
0°-60°	2156.9	99.3
0°-90°	2171.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	31825	
5°	21296	###
15°	1364	466
25°	273	136
35°	77	52
45°	28	25
55°	14	15
65°	7	8
75°	7	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	31825.1
1°	31517.3
2°	30244.0
3°	27816.4
4°	24815.1
5°	21296.1
6°	17406.2
7°	13817.2
8°	10319.2
9°	7520.8
10°	5373.0
11°	3805.9
12°	2819.4
13°	2140.8
14°	1700.0
15°	1364.2
17.5°	888.5
20°	594.7
22.5°	398.8
25°	272.8
27.5°	188.9
30°	139.9
32.5°	97.9
35°	77.0
37.5°	63.0
40°	56.0
42.5°	42.0
45°	28.0
47.5°	21.0
50°	21.0
52.5°	21.0
55°	14.0
57.5°	14.0
60°	14.0
62.5°	7.0
65°	7.0
67.5°	7.0
70°	7.0
72.5°	7.0
75°	7.0
77.5°	7.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)