

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: P432757

Luminaire Tested: **LAM4B308R209050DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2007-857-3)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B308R209050DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2811.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

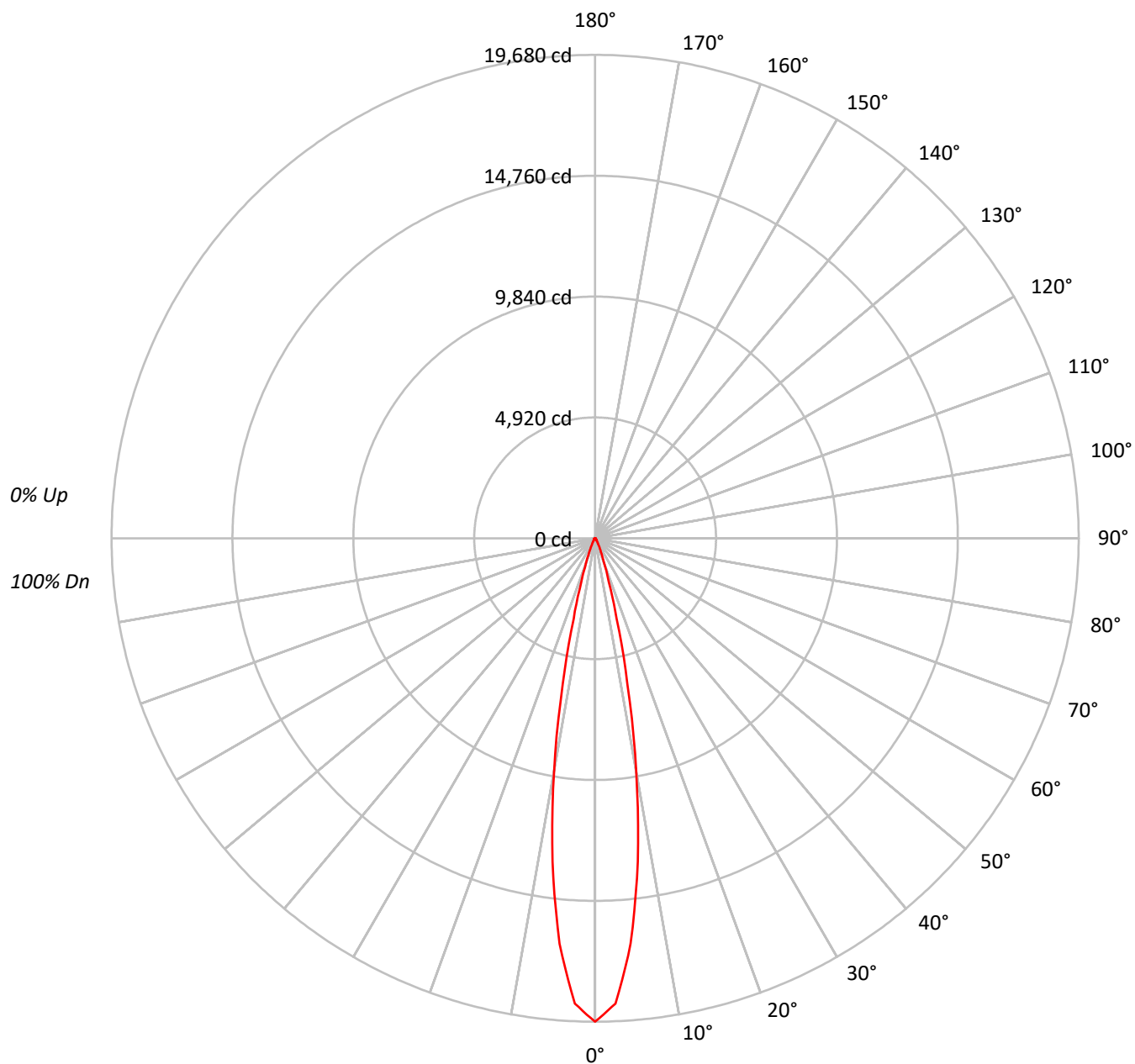
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	110	113	111	109	108	107	106	105		103	102	101		100
2	112	108	105	103	110	106	104	102	103	101	100		101	99	97		98
3	108	104	100	98	107	103	100	97	100	98	95		98	96	94		96
4	105	100	97	94	104	99	96	93	97	94	92		95	93	91		94
5	103	97	93	90	101	96	93	90	95	92	89		93	91	89		92
6	100	94	90	88	99	94	90	87	92	89	87		91	88	86		90
7	98	92	88	85	97	91	88	85	90	87	85		89	86	84		88
8	96	90	86	83	95	89	86	83	88	85	83		87	85	82		87
9	94	88	84	81	93	87	84	81	86	83	81		86	83	81		85
10	92	86	82	80	91	85	82	80	85	82	79		84	81	79		83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9709710
5°	8207221
10°	4820633
15°	1726042
20°	571142
25°	227335
30°	108643
35°	62098
40°	44827
45°	37748
50°	43521
55°	35439
60°	17762
65°	15060
70°	18609
75°	19635
80°	14775
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1356.9	48.3
10°-20°	1058.2	37.6
20°-30°	219.6	7.8
30°-40°	69.2	2.5
40°-50°	44.5	1.6
50°-60°	35.7	1.3
60°-70°	14.0	0.5
70°-80°	10.5	0.4
80°-90°	2.1	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°	2634.7	93.7
0°-40°	2704.0	96.2
0°-60°	2784.3	99.1
0°-90°	2811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2811.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19680	
5°	16571	###
15°	3379	1058
25°	418	220
35°	103	69
45°	54	45
55°	41	36
65°	13	14
75°	10	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19680.0
2.5°	18958.3
5°	16571.4
7.5°	13277.3
10°	9622.2
12.5°	6070.3
15°	3379.2
17.5°	1858.5
20°	1087.8
22.5°	665.0
25°	417.6
27.5°	275.8
30°	190.7
32.5°	134.0
35°	103.1
37.5°	82.5
40°	69.6
42.5°	59.3
45°	54.1
47.5°	54.1
50°	56.7
52.5°	54.1
55°	41.2
57.5°	28.4
60°	18.0
62.5°	15.5
65°	12.9
67.5°	12.9
70°	12.9
72.5°	12.9
75°	10.3
77.5°	7.7
80°	5.2
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)