

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: P434309

Luminaire Tested: **LAMR4B408R209030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434309
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: LAMR4B408R209030DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 20 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3193.9 lumens
Efficiency: N/A
Efficacy: 77.5 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

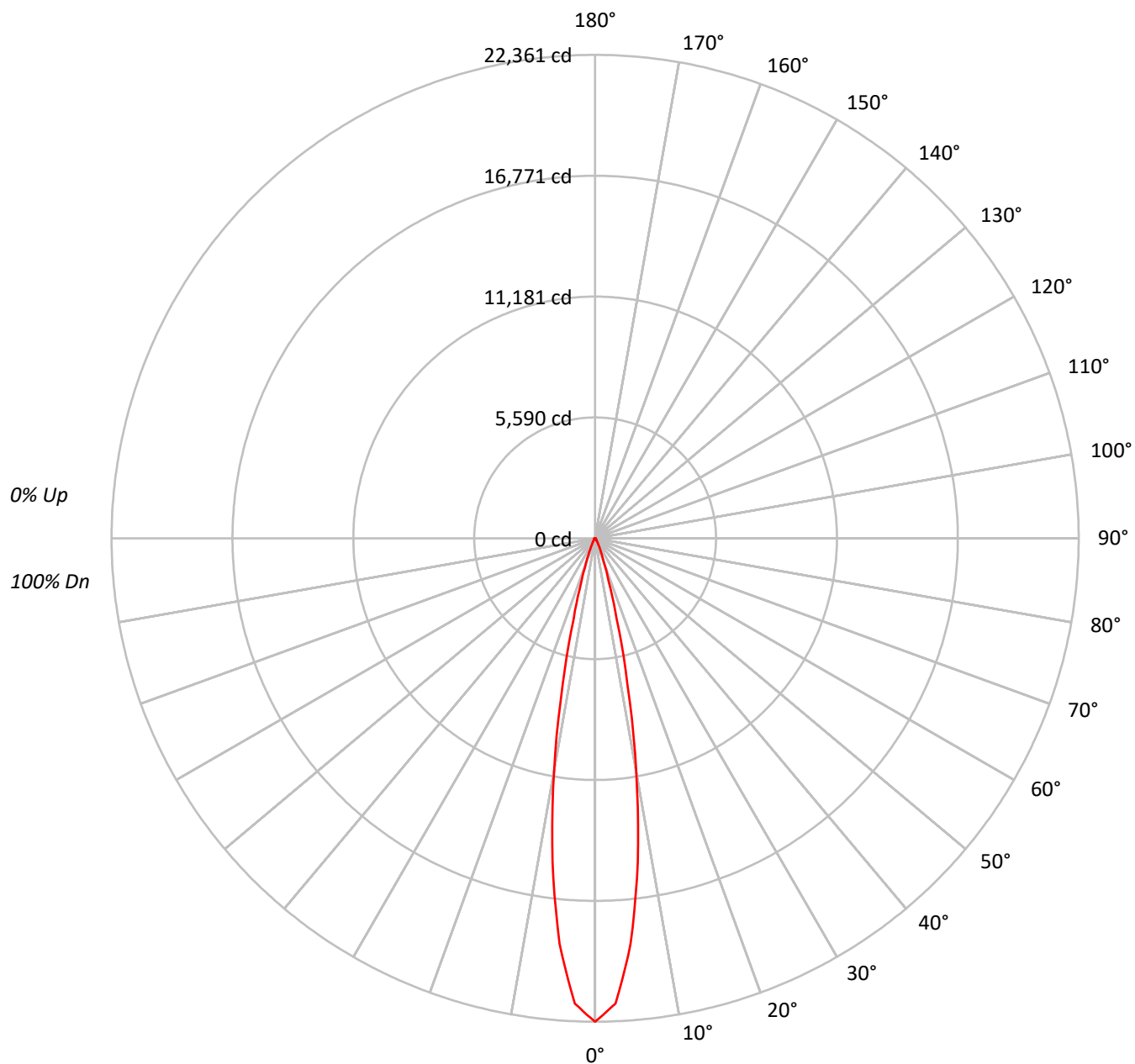
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11032608
5°	9325379
10°	5477382
15°	1961207
20°	648901
25°	258310
30°	123455
35°	70590
40°	50945
45°	42911
50°	49431
55°	40342
60°	20229
65°	17045
70°	21061
75°	22303
80°	16763
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1541.8	48.3
10°-20°	1202.3	37.6
20°-30°	249.6	7.8
30°-40°	78.7	2.5
40°-50°	50.6	1.6
50°-60°	40.6	1.3
60°-70°	15.9	0.5
70°-80°	12.0	0.4
80°-90°	2.4	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°	2993.7	93.7
0°-40°	3072.4	96.2
0°-60°	3163.6	99.1
0°-90°	3193.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22361	
5°	18829	###
15°	3840	1202
25°	474	250
35°	117	79
45°	62	51
55°	47	41
65°	15	16
75°	12	12
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22361.3
2.5°	21541.2
5°	18829.1
7.5°	15086.2
10°	10933.1
12.5°	6897.3
15°	3839.6
17.5°	2111.7
20°	1235.9
22.5°	755.6
25°	474.5
27.5°	313.4
30°	216.7
32.5°	152.3
35°	117.2
37.5°	93.7
40°	79.1
42.5°	67.4
45°	61.5
47.5°	61.5
50°	64.4
52.5°	61.5
55°	46.9
57.5°	32.2
60°	20.5
62.5°	17.6
65°	14.6
67.5°	14.6
70°	14.6
72.5°	14.6
75°	11.7
77.5°	8.8
80°	5.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)