

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: P433997

Luminaire Tested: **LAMR4B308R209030DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P433997
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: LAMR4B308R209030DE01021MMS
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: 2406.1 lumens
Efficiency: N/A
Efficacy: 75.4 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

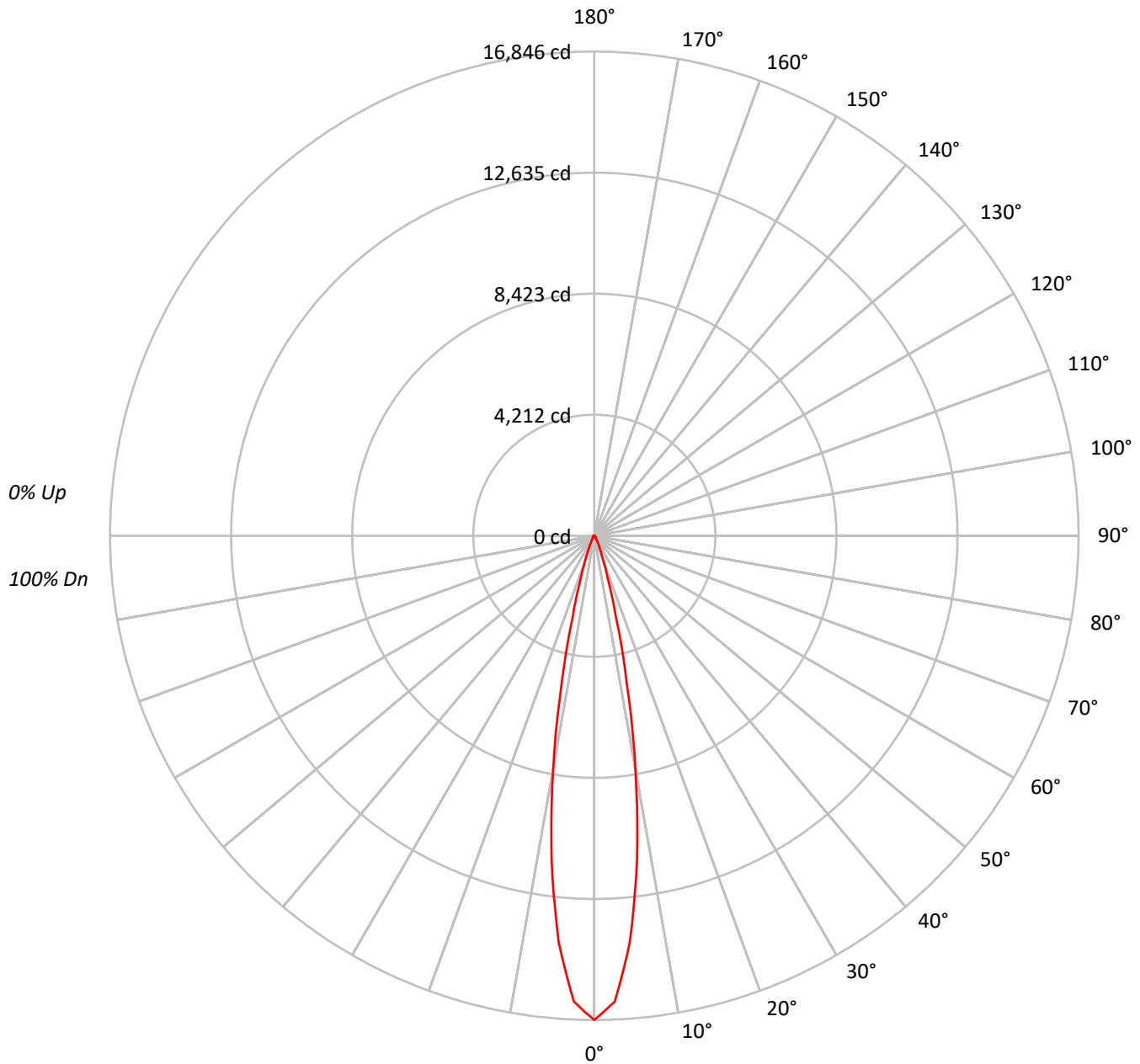
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8311669
5°	7025520
10°	4126510
15°	1477545
20°	488868
25°	194563
30°	93033
35°	53184
40°	38386
45°	32306
50°	37227
55°	30364
60°	15196
65°	12842
70°	15868
75°	16775
80°	12502
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.5	48.3
10°-20°	905.8	37.6
20°-30°	188.0	7.8
30°-40°	59.3	2.5
40°-50°	38.1	1.6
50°-60°	30.6	1.3
60°-70°	12.0	0.5
70°-80°	9.0	0.4
80°-90°	1.8	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°	2255.4	93.7
0°-40°	2314.6	96.2
0°-60°	2383.3	99.1
0°-90°	2406.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16846	
5°	14185	###
15°	2893	906
25°	357	188
35°	88	59
45°	46	38
55°	35	31
65°	11	12
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16846.4
2.5°	16228.5
5°	14185.4
7.5°	11365.5
10°	8236.7
12.5°	5196.2
15°	2892.7
17.5°	1590.9
20°	931.1
22.5°	569.3
25°	357.4
27.5°	236.1
30°	163.3
32.5°	114.7
35°	88.3
37.5°	70.6
40°	59.6
42.5°	50.7
45°	46.3
47.5°	46.3
50°	48.5
52.5°	46.3
55°	35.3
57.5°	24.3
60°	15.4
62.5°	13.2
65°	11.0
67.5°	11.0
70°	11.0
72.5°	11.0
75°	8.8
77.5°	6.6
80°	4.4
82.5°	2.2
85°	2.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)