

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: P431935

Luminaire Tested: **LAMR4B412R459035DE01021MB**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P431935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B412R459035DE01021MB
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5966.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

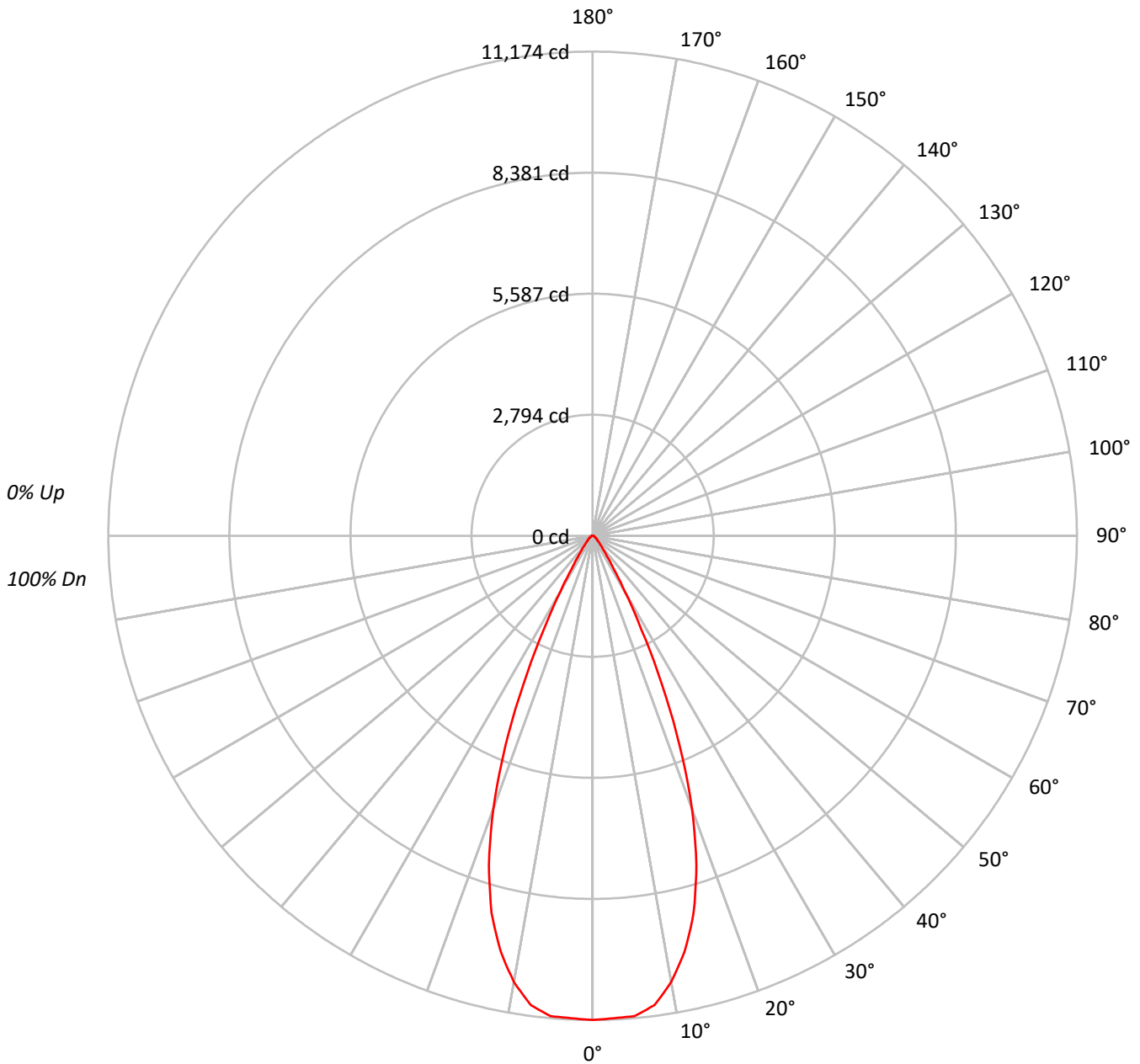
Input Watts (W): 54.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P431935

CATALOG NUMBER: LAMR4B412R459035DE01021MB

Luminous Intensity Polar Plot





TEST NUMBER: P431935

CATALOG NUMBER: LAMR4B412R459035DE01021MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	102	102	102	100																											
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95																											
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																											
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85																											
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80																											
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76																											
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73																											
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69																											
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																											
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63																											
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5513122
5°	5511250
10°	5238509
15°	4601552
20°	3520154
25°	2054996
30°	841113
35°	355721
40°	193927
45°	125245
50°	97787
55°	84642
60°	68580
65°	54052
70°	50056
75°	44226
80°	49438
85°	32833



TEST NUMBER: P431935

CATALOG NUMBER: LAMR4B412R459035DE01021MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.3	17.5
10°-20°	2452.6	41.1
20°-30°	1728.1	29.0
30°-40°	425.4	7.1
40°-50°	148.4	2.5
50°-60°	87.8	1.5
60°-70°	48.6	0.8
70°-80°	26.7	0.4
80°-90°	7.1	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°	5222.0	87.5
0°-40°	5647.4	94.7
0°-60°	5883.6	98.6
0°-90°	5966.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5966.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11174	
5°	11128	###
15°	9009	2453
25°	3775	1728
35°	591	425
45°	180	148
55°	98	88
65°	46	49
75°	23	27
85°	6	7
90°	0	



TEST NUMBER: P431935

CATALOG NUMBER: LAMR4B412R459035DE01021MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	11174.2
2.5°	11145.2
5°	11127.9
7.5°	10925.2
10°	10456.3
12.5°	9819.4
15°	9008.8
17.5°	7960.9
20°	6704.5
22.5°	5262.9
25°	3774.9
27.5°	2437.5
30°	1476.4
32.5°	897.4
35°	590.6
37.5°	416.9
40°	301.1
42.5°	231.6
45°	179.5
47.5°	150.5
50°	127.4
52.5°	110.0
55°	98.4
57.5°	86.8
60°	69.5
62.5°	57.9
65°	46.3
67.5°	40.5
70°	34.7
72.5°	28.9
75°	23.2
77.5°	23.2
80°	17.4
82.5°	11.6
85°	5.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)