

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P295849

Luminaire Tested: **24RLN-LD5-67-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6697.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

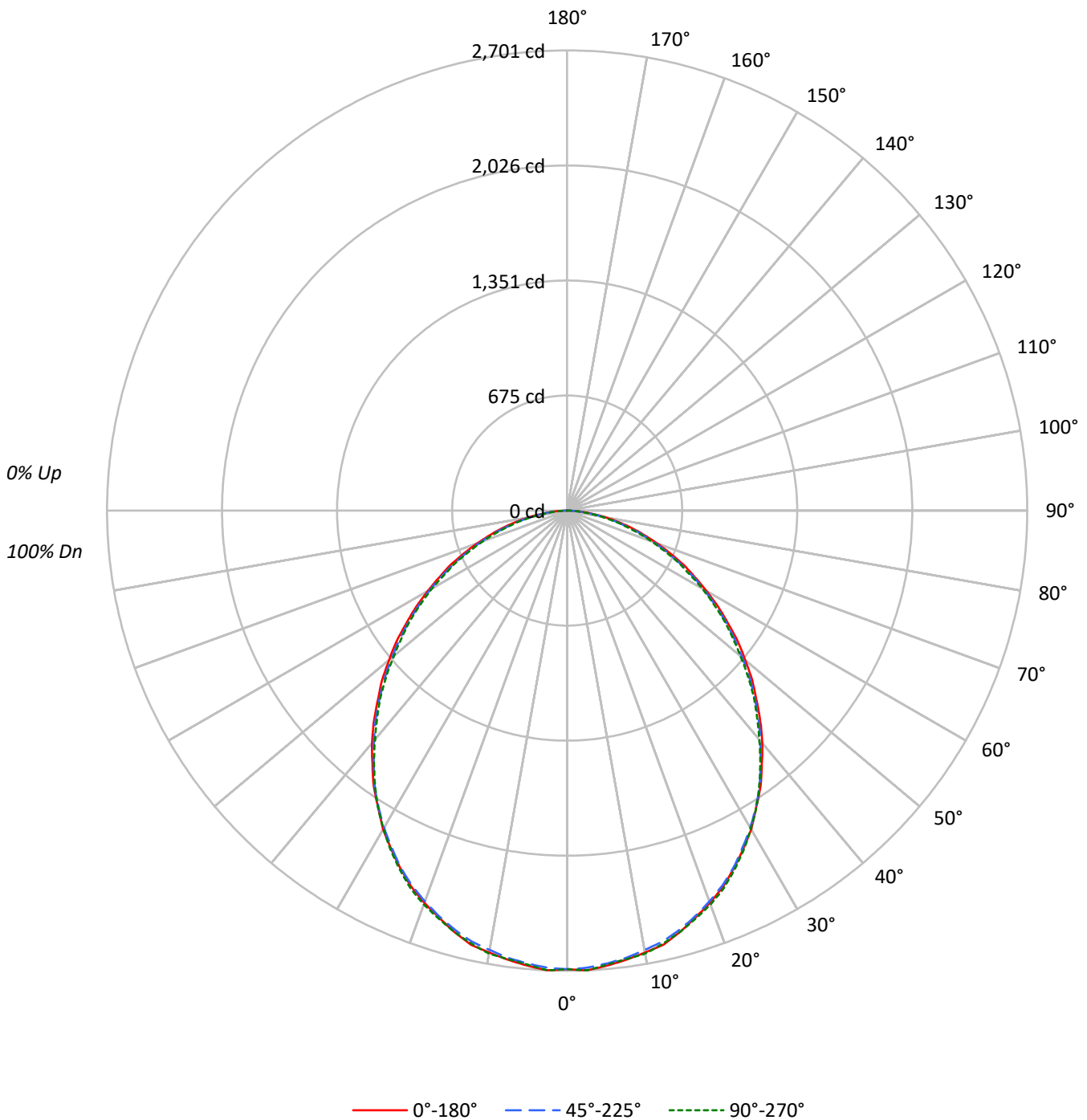
Input Watts (W): 48.639
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	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	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56		66	60	55		64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3622	3622	3622
5°	3621	3604	3613
10°	3598	3578	3607
15°	3566	3548	3566
20°	3508	3496	3523
25°	3438	3432	3451
30°	3357	3340	3350
35°	3251	3236	3229
40°	3131	3100	3081
45°	2989	2960	2948
50°	2854	2808	2777
55°	2701	2661	2635
60°	2541	2494	2465
65°	2401	2311	2291
70°	2201	2116	2074
75°	2022	1898	1820
80°	1774	1657	1557
85°	1434	1334	1135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	3.8
10°-20°	720.1	10.8
20°-30°	1065.1	15.9
30°-40°	1229.3	18.4
40°-50°	1200.6	17.9
50°-60°	1013.8	15.1
60°-70°	722.2	10.8
70°-80°	391.0	5.8
80°-90°	100.9	1.5
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°	2039.2	30.4
0°-40°	3268.5	48.8
0°-60°	5483.0	81.9
0°-90°	6697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2692	2692	2692	2692	2692	
5°	2681	2681	2668	2675	2675	254
15°	2560	2549	2547	2558	2560	721
25°	2316	2303	2312	2320	2325	1066
35°	1979	1964	1970	1964	1966	1235
45°	1571	1558	1556	1549	1549	1215
55°	1152	1136	1134	1124	1124	1032
65°	754	739	726	717	720	743
75°	389	376	365	356	350	412
85°	93	91	86	76	74	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2692.0	2692.0	2692.0	2692.0	2692.0
2.5°	2700.6	2689.8	2685.5	2687.7	2700.6
5°	2681.2	2681.2	2668.2	2674.7	2674.7
7.5°	2659.6	2661.8	2648.8	2659.6	2655.3
10°	2633.7	2627.2	2618.5	2635.8	2640.2
12.5°	2609.9	2594.8	2590.5	2601.3	2603.4
15°	2560.2	2549.4	2547.2	2558.1	2560.2
17.5°	2504.0	2506.2	2497.6	2512.7	2510.5
20°	2450.0	2445.7	2441.4	2458.7	2460.8
22.5°	2389.5	2376.6	2380.9	2396.0	2400.3
25°	2316.1	2303.1	2311.8	2320.4	2324.7
27.5°	2238.3	2231.8	2229.7	2240.5	2244.8
30°	2160.5	2149.7	2149.7	2162.7	2156.2
32.5°	2065.5	2056.8	2061.1	2065.5	2067.6
35°	1979.0	1963.9	1970.4	1963.9	1966.1
37.5°	1877.5	1866.7	1864.5	1862.4	1862.4
40°	1782.4	1773.8	1765.1	1765.1	1754.3
42.5°	1678.7	1667.9	1663.6	1657.1	1650.6
45°	1570.7	1557.7	1555.6	1549.1	1549.1
47.5°	1473.5	1454.0	1451.9	1438.9	1438.9
50°	1363.3	1350.3	1341.7	1333.0	1326.6
52.5°	1263.9	1250.9	1238.0	1229.3	1222.9
55°	1151.6	1136.4	1134.3	1123.5	1123.5
57.5°	1050.0	1037.0	1028.4	1015.4	1017.6
60°	944.1	931.2	926.9	916.1	916.1
62.5°	844.8	834.0	827.5	816.7	808.0
65°	754.0	738.9	725.9	717.3	719.5
67.5°	654.6	637.4	630.9	622.2	615.7
70°	559.6	548.8	538.0	527.2	527.2
72.5°	471.0	460.2	453.7	440.7	436.4
75°	388.9	375.9	365.1	356.5	350.0
77.5°	306.8	293.8	287.3	276.5	276.5
80°	229.0	220.4	213.9	209.6	200.9
82.5°	157.7	153.4	146.9	140.4	134.0
85°	92.9	90.7	86.4	75.6	73.5
87.5°	36.7	36.7	32.4	30.2	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)