

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: P295926

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295926
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-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6145.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

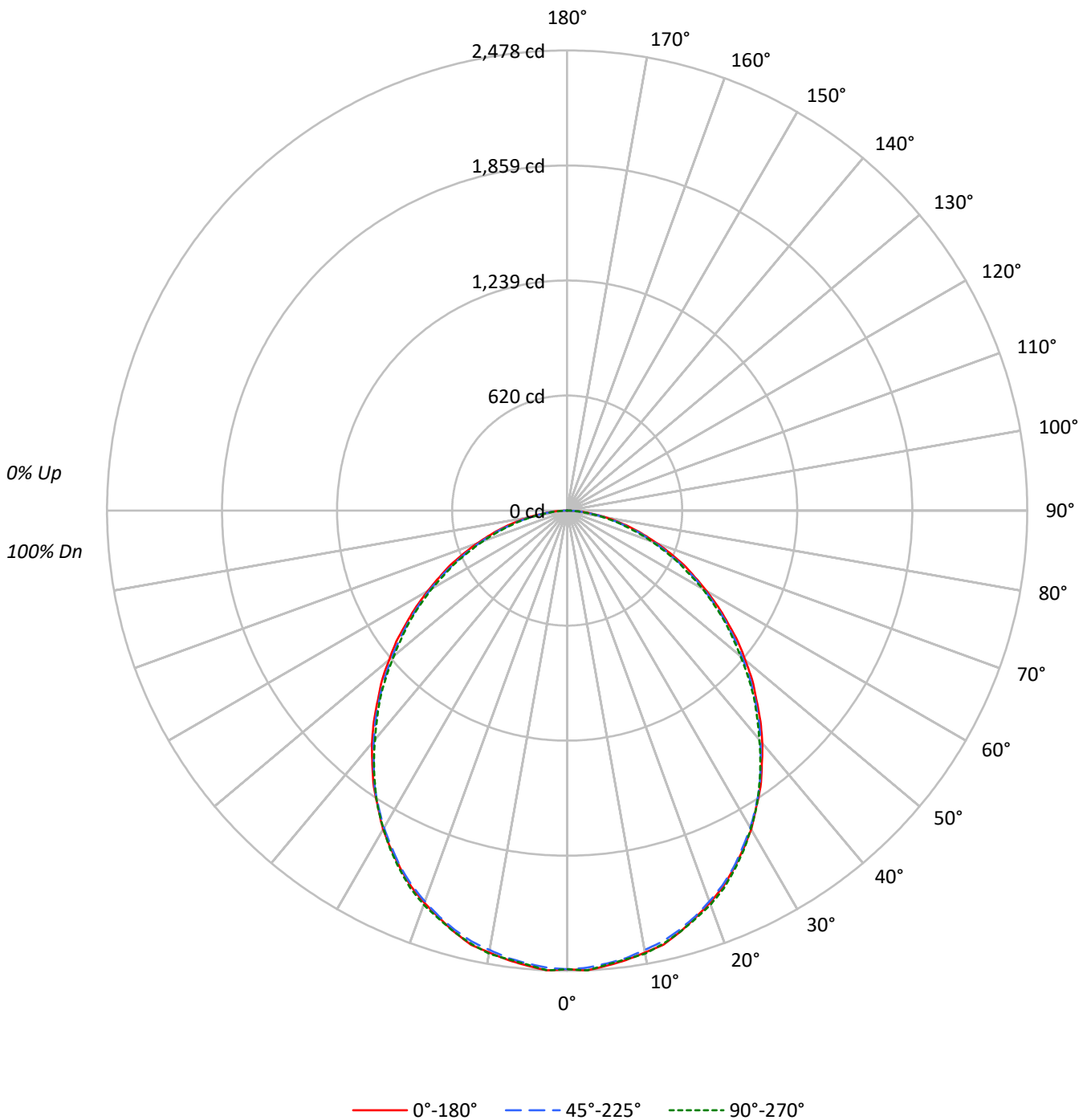
Input Watts (W): 48.639
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3323	3323	3323
5°	3323	3307	3315
10°	3302	3283	3310
15°	3272	3256	3272
20°	3219	3208	3233
25°	3155	3149	3167
30°	3080	3065	3074
35°	2983	2970	2963
40°	2873	2845	2827
45°	2742	2716	2705
50°	2618	2577	2548
55°	2479	2441	2418
60°	2331	2289	2262
65°	2203	2121	2102
70°	2020	1942	1903
75°	1855	1742	1670
80°	1628	1521	1429
85°	1315	1224	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	3.8
10°-20°	660.7	10.8
20°-30°	977.3	15.9
30°-40°	1128.0	18.4
40°-50°	1101.7	17.9
50°-60°	930.3	15.1
60°-70°	662.6	10.8
70°-80°	358.8	5.8
80°-90°	92.6	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°	1871.1	30.4
0°-40°	2999.1	48.8
0°-60°	5031.0	81.9
0°-90°	6145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2460	2460	2448	2454	2454	233
15°	2349	2339	2337	2347	2349	662
25°	2125	2113	2121	2129	2133	978
35°	1816	1802	1808	1802	1804	1133
45°	1441	1429	1427	1421	1421	1114
55°	1057	1043	1041	1031	1031	947
65°	692	678	666	658	660	682
75°	357	345	335	327	321	378
85°	85	83	79	69	67	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470.1	2470.1	2470.1	2470.1	2470.1
2.5°	2478.0	2468.1	2464.2	2466.2	2478.0
5°	2460.2	2460.2	2448.3	2454.3	2454.3
7.5°	2440.4	2442.4	2430.5	2440.4	2436.4
10°	2416.6	2410.6	2402.7	2418.6	2422.5
12.5°	2394.8	2380.9	2376.9	2386.9	2388.8
15°	2349.2	2339.3	2337.3	2347.2	2349.2
17.5°	2297.6	2299.6	2291.7	2305.6	2303.6
20°	2248.1	2244.1	2240.2	2256.0	2258.0
22.5°	2192.6	2180.7	2184.6	2198.5	2202.5
25°	2125.2	2113.3	2121.2	2129.1	2133.1
27.5°	2053.8	2047.9	2045.9	2055.8	2059.8
30°	1982.4	1972.5	1972.5	1984.4	1978.5
32.5°	1895.2	1887.3	1891.2	1895.2	1897.2
35°	1815.9	1802.0	1808.0	1802.0	1804.0
37.5°	1722.7	1712.8	1710.8	1708.9	1708.9
40°	1635.5	1627.6	1619.7	1619.7	1609.7
42.5°	1540.4	1530.4	1526.5	1520.5	1514.6
45°	1441.2	1429.3	1427.4	1421.4	1421.4
47.5°	1352.0	1334.2	1332.2	1320.3	1320.3
50°	1250.9	1239.0	1231.1	1223.2	1217.2
52.5°	1159.7	1147.8	1135.9	1128.0	1122.1
55°	1056.6	1042.8	1040.8	1030.9	1030.9
57.5°	963.5	951.6	943.6	931.7	933.7
60°	866.3	854.4	850.5	840.6	840.6
62.5°	775.1	765.2	759.3	749.4	741.4
65°	691.9	678.0	666.1	658.2	660.2
67.5°	600.7	584.8	578.9	570.9	565.0
70°	513.5	503.5	493.6	483.7	483.7
72.5°	432.2	422.3	416.3	404.4	400.5
75°	356.8	344.9	335.0	327.1	321.2
77.5°	281.5	269.6	263.7	253.8	253.8
80°	210.1	202.2	196.3	192.3	184.4
82.5°	144.7	140.8	134.8	128.9	122.9
85°	85.2	83.3	79.3	69.4	67.4
87.5°	33.7	33.7	29.7	27.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)