

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: P295928

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295928
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-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: 6541.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

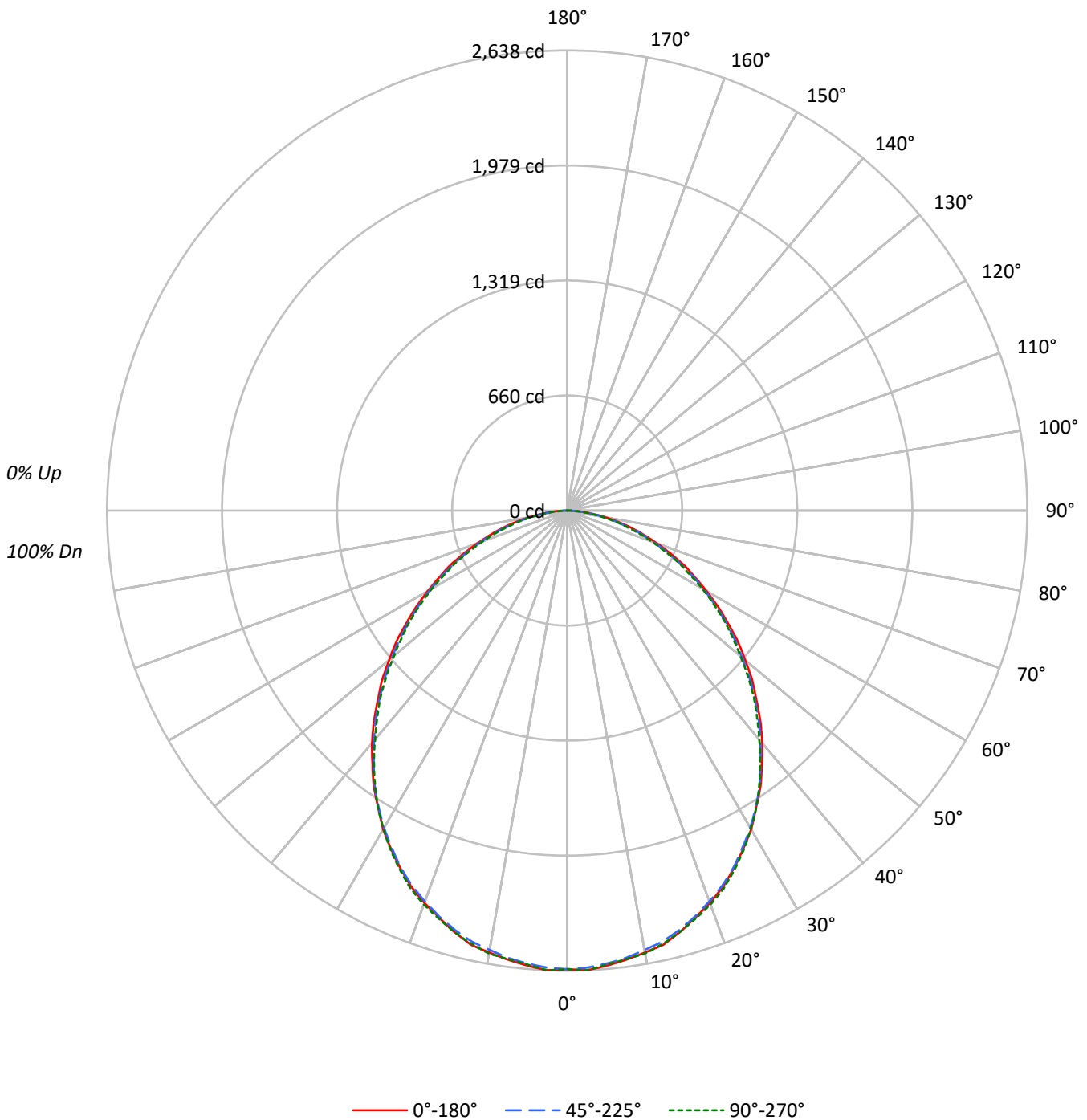
Input Watts (W): 48.825
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3538	3538	3538
5°	3537	3520	3528
10°	3514	3494	3523
15°	3483	3466	3483
20°	3426	3414	3441
25°	3358	3352	3371
30°	3278	3262	3272
35°	3175	3161	3154
40°	3058	3028	3010
45°	2919	2891	2879
50°	2787	2743	2712
55°	2638	2599	2574
60°	2482	2436	2408
65°	2345	2257	2237
70°	2150	2067	2026
75°	1974	1854	1777
80°	1733	1619	1520
85°	1400	1303	1107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	3.8
10°-20°	703.3	10.8
20°-30°	1040.3	15.9
30°-40°	1200.6	18.4
40°-50°	1172.7	17.9
50°-60°	990.2	15.1
60°-70°	705.3	10.8
70°-80°	381.9	5.8
80°-90°	98.5	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°	1991.7	30.4
0°-40°	3192.4	48.8
0°-60°	5355.2	81.9
0°-90°	6541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2619	2619	2606	2612	2612	249
15°	2501	2490	2488	2498	2501	704
25°	2262	2250	2258	2266	2271	1041
35°	1933	1918	1924	1918	1920	1206
45°	1534	1521	1519	1513	1513	1186
55°	1125	1110	1108	1097	1097	1008
65°	736	722	709	701	703	726
75°	380	367	357	348	342	402
85°	91	89	84	74	72	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2629.3	2629.3	2629.3	2629.3	2629.3
2.5°	2637.7	2627.2	2623.0	2625.1	2637.7
5°	2618.7	2618.7	2606.1	2612.4	2612.4
7.5°	2597.6	2599.8	2587.1	2597.6	2593.4
10°	2572.3	2566.0	2557.5	2574.4	2578.7
12.5°	2549.1	2534.3	2530.1	2540.7	2542.8
15°	2500.6	2490.0	2487.9	2498.5	2500.6
17.5°	2445.7	2447.8	2439.4	2454.2	2452.0
20°	2393.0	2388.7	2384.5	2401.4	2403.5
22.5°	2333.9	2321.2	2325.4	2340.2	2344.4
25°	2262.1	2249.5	2257.9	2266.3	2270.6
27.5°	2186.2	2179.8	2177.7	2188.3	2192.5
30°	2110.2	2099.6	2099.6	2112.3	2106.0
32.5°	2017.3	2008.9	2013.1	2017.3	2019.5
35°	1932.9	1918.2	1924.5	1918.2	1920.3
37.5°	1833.8	1823.2	1821.1	1819.0	1819.0
40°	1740.9	1732.5	1724.0	1724.0	1713.5
42.5°	1639.6	1629.1	1624.8	1618.5	1612.2
45°	1534.1	1521.4	1519.3	1513.0	1513.0
47.5°	1439.1	1420.2	1418.0	1405.4	1405.4
50°	1331.5	1318.9	1310.4	1302.0	1295.7
52.5°	1234.5	1221.8	1209.1	1200.7	1194.4
55°	1124.7	1110.0	1107.8	1097.3	1097.3
57.5°	1025.6	1012.9	1004.5	991.8	993.9
60°	922.2	909.5	905.3	894.7	894.7
62.5°	825.1	814.5	808.2	797.7	789.2
65°	736.5	721.7	709.0	700.6	702.7
67.5°	639.4	622.5	616.2	607.7	601.4
70°	546.5	536.0	525.4	514.9	514.9
72.5°	460.0	449.5	443.1	430.5	426.3
75°	379.8	367.2	356.6	348.2	341.9
77.5°	299.6	287.0	280.7	270.1	270.1
80°	223.7	215.2	208.9	204.7	196.2
82.5°	154.0	149.8	143.5	137.2	130.8
85°	90.7	88.6	84.4	73.9	71.7
87.5°	35.9	35.9	31.7	29.5	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)