

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: P296085

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296085
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-LD5-80-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6570.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

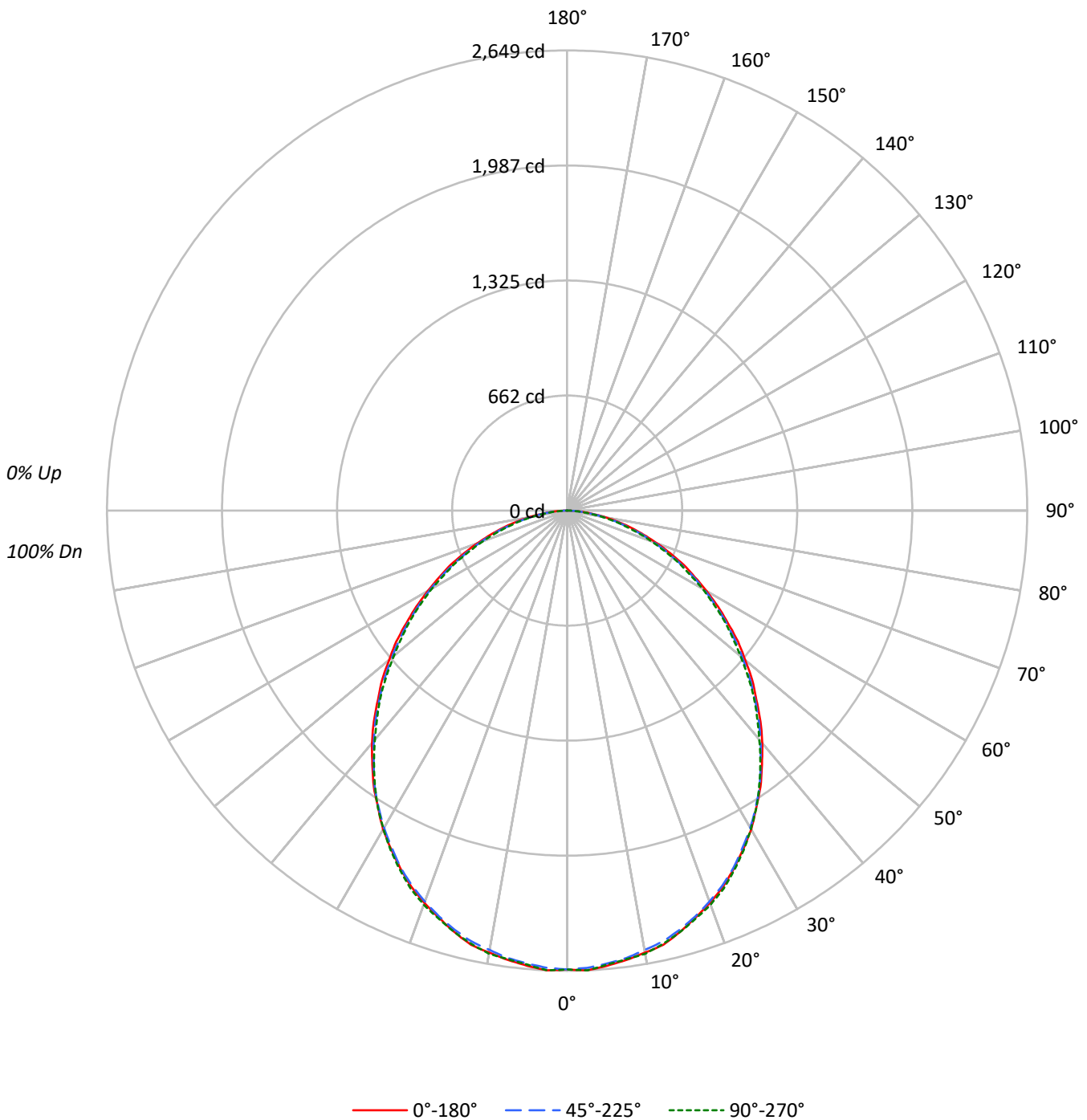
Input Watts (W): 60.171
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3553	3553	3553
5°	3553	3535	3544
10°	3530	3510	3539
15°	3499	3481	3499
20°	3442	3429	3457
25°	3373	3367	3386
30°	3293	3276	3286
35°	3189	3175	3168
40°	3071	3042	3023
45°	2932	2904	2892
50°	2799	2755	2724
55°	2650	2610	2586
60°	2492	2447	2418
65°	2355	2267	2247
70°	2160	2076	2035
75°	1983	1862	1785
80°	1741	1626	1527
85°	1406	1309	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	3.8
10°-20°	706.4	10.8
20°-30°	1044.9	15.9
30°-40°	1206.0	18.4
40°-50°	1177.9	17.9
50°-60°	994.6	15.1
60°-70°	708.5	10.8
70°-80°	383.6	5.8
80°-90°	99.0	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°	2000.5	30.4
0°-40°	3206.5	48.8
0°-60°	5379.0	81.9
0°-90°	6570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2630	2630	2618	2624	2624	250
15°	2512	2501	2499	2510	2512	707
25°	2272	2259	2268	2276	2281	1046
35°	1942	1927	1933	1927	1929	1212
45°	1541	1528	1526	1520	1520	1191
55°	1130	1115	1113	1102	1102	1013
65°	740	725	712	704	706	729
75°	382	369	358	350	343	404
85°	91	89	85	74	72	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2641.0	2641.0	2641.0	2641.0	2641.0
2.5°	2649.4	2638.8	2634.6	2636.7	2649.4
5°	2630.4	2630.4	2617.6	2624.0	2624.0
7.5°	2609.2	2611.3	2598.6	2609.2	2604.9
10°	2583.7	2577.4	2568.9	2585.8	2590.1
12.5°	2560.4	2545.6	2541.3	2551.9	2554.1
15°	2511.7	2501.1	2498.9	2509.5	2511.7
17.5°	2456.6	2458.7	2450.2	2465.0	2462.9
20°	2403.6	2399.3	2395.1	2412.0	2414.2
22.5°	2344.2	2331.5	2335.7	2350.6	2354.8
25°	2272.2	2259.4	2267.9	2276.4	2280.6
27.5°	2195.8	2189.5	2187.4	2198.0	2202.2
30°	2119.5	2108.9	2108.9	2121.7	2115.3
32.5°	2026.3	2017.8	2022.0	2026.3	2028.4
35°	1941.5	1926.7	1933.0	1926.7	1928.8
37.5°	1841.9	1831.3	1829.2	1827.0	1827.0
40°	1748.6	1740.1	1731.7	1731.7	1721.1
42.5°	1646.9	1636.3	1632.0	1625.7	1619.3
45°	1540.9	1528.2	1526.1	1519.7	1519.7
47.5°	1445.5	1426.5	1424.3	1411.6	1411.6
50°	1337.4	1324.7	1316.2	1307.8	1301.4
52.5°	1239.9	1227.2	1214.5	1206.0	1199.7
55°	1129.7	1114.9	1112.8	1102.2	1102.2
57.5°	1030.1	1017.4	1008.9	996.2	998.3
60°	926.2	913.5	909.3	898.7	898.7
62.5°	828.7	818.1	811.8	801.2	792.7
65°	739.7	724.9	712.2	703.7	705.8
67.5°	642.2	625.3	618.9	610.4	604.1
70°	549.0	538.4	527.8	517.2	517.2
72.5°	462.1	451.5	445.1	432.4	428.1
75°	381.5	368.8	358.2	349.7	343.4
77.5°	301.0	288.3	281.9	271.3	271.3
80°	224.7	216.2	209.8	205.6	197.1
82.5°	154.7	150.5	144.1	137.8	131.4
85°	91.1	89.0	84.8	74.2	72.1
87.5°	36.0	36.0	31.8	29.7	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)