

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: P296051

Luminaire Tested: **24RLN-LD5-55-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296051
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-LD5-55-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4901.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

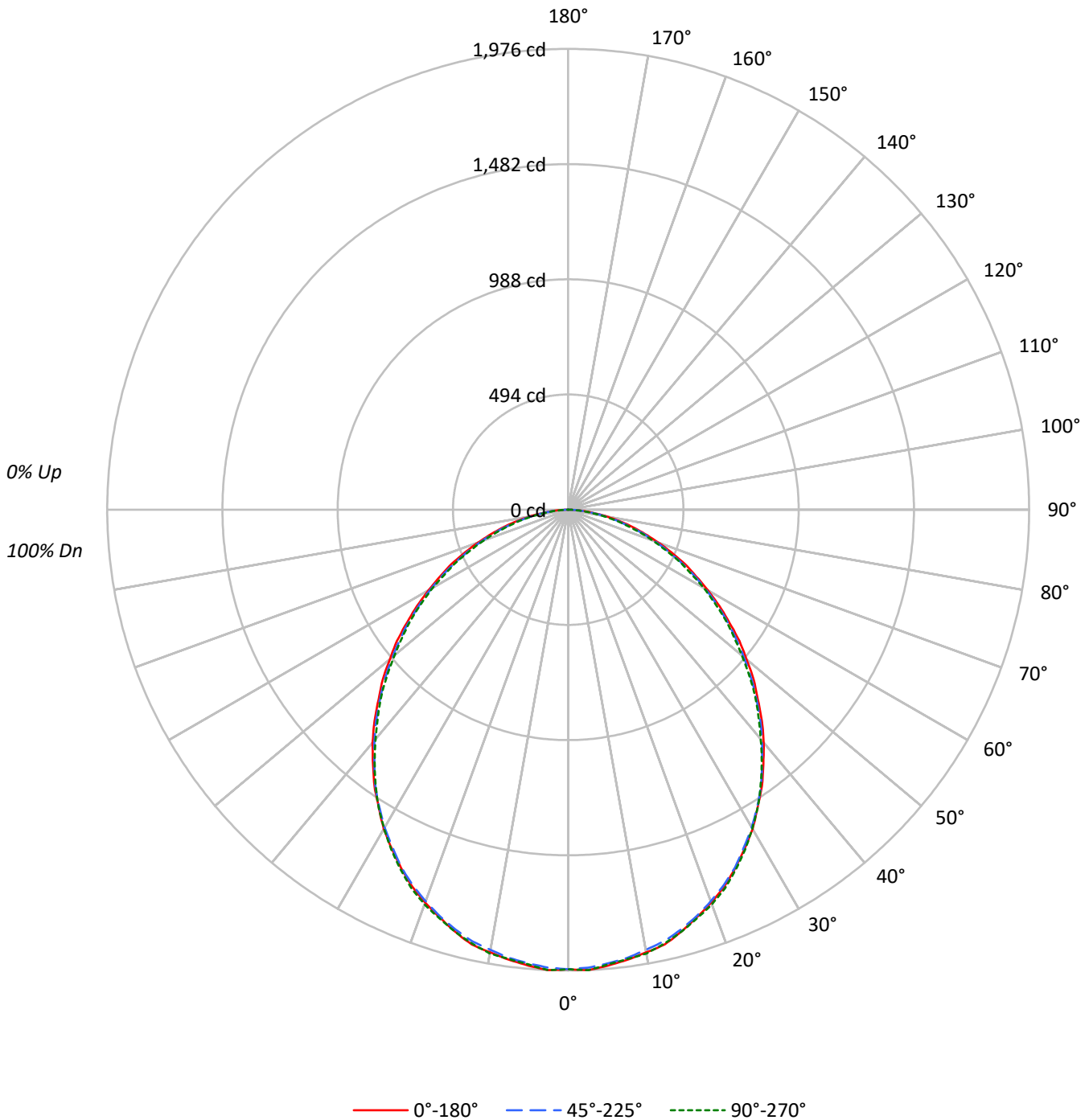
Input Watts (W): 38.781
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2651	2651	2651
5°	2650	2637	2644
10°	2633	2618	2640
15°	2610	2597	2610
20°	2567	2558	2579
25°	2516	2512	2526
30°	2456	2444	2451
35°	2379	2369	2363
40°	2291	2269	2255
45°	2187	2166	2157
50°	2088	2055	2032
55°	1977	1947	1929
60°	1859	1825	1804
65°	1757	1691	1676
70°	1611	1549	1518
75°	1480	1389	1331
80°	1299	1213	1139
85°	1050	976	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	3.8
10°-20°	527.0	10.8
20°-30°	779.5	15.9
30°-40°	899.6	18.4
40°-50°	878.6	17.9
50°-60°	742.0	15.1
60°-70°	528.5	10.8
70°-80°	286.1	5.8
80°-90°	73.8	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°	1492.3	30.4
0°-40°	2391.9	48.8
0°-60°	4012.6	81.9
0°-90°	4901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1962	1962	1953	1957	1957	186
15°	1874	1866	1864	1872	1874	528
25°	1695	1686	1692	1698	1701	780
35°	1448	1437	1442	1437	1439	904
45°	1150	1140	1138	1134	1134	889
55°	843	832	830	822	822	756
65°	552	541	531	525	526	544
75°	285	275	267	261	256	301
85°	68	66	63	55	54	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1970.1	1970.1	1970.1	1970.1	1970.1
2.5°	1976.4	1968.5	1965.3	1966.9	1976.4
5°	1962.2	1962.2	1952.7	1957.4	1957.4
7.5°	1946.3	1947.9	1938.4	1946.3	1943.2
10°	1927.4	1922.6	1916.3	1929.0	1932.1
12.5°	1910.0	1898.9	1895.8	1903.7	1905.2
15°	1873.6	1865.7	1864.1	1872.0	1873.6
17.5°	1832.5	1834.1	1827.8	1838.8	1837.2
20°	1793.0	1789.8	1786.7	1799.3	1800.9
22.5°	1748.7	1739.2	1742.4	1753.5	1756.6
25°	1694.9	1685.5	1691.8	1698.1	1701.3
27.5°	1638.0	1633.3	1631.7	1639.6	1642.8
30°	1581.1	1573.2	1573.2	1582.7	1577.9
32.5°	1511.5	1505.2	1508.4	1511.5	1513.1
35°	1448.3	1437.2	1442.0	1437.2	1438.8
37.5°	1374.0	1366.1	1364.5	1362.9	1362.9
40°	1304.4	1298.1	1291.8	1291.8	1283.9
42.5°	1228.5	1220.6	1217.5	1212.7	1208.0
45°	1149.5	1140.0	1138.4	1133.7	1133.7
47.5°	1078.3	1064.1	1062.5	1053.0	1053.0
50°	997.7	988.2	981.9	975.5	970.8
52.5°	924.9	915.5	906.0	899.7	894.9
55°	842.7	831.7	830.1	822.2	822.2
57.5°	768.4	758.9	752.6	743.1	744.7
60°	690.9	681.5	678.3	670.4	670.4
62.5°	618.2	610.3	605.6	597.7	591.3
65°	551.8	540.7	531.3	524.9	526.5
67.5°	479.1	466.4	461.7	455.4	450.6
70°	409.5	401.6	393.7	385.8	385.8
72.5°	344.7	336.8	332.0	322.5	319.4
75°	284.6	275.1	267.2	260.9	256.1
77.5°	224.5	215.0	210.3	202.4	202.4
80°	167.6	161.3	156.5	153.4	147.0
82.5°	115.4	112.3	107.5	102.8	98.0
85°	68.0	66.4	63.2	55.3	53.8
87.5°	26.9	26.9	23.7	22.1	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)