

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: P295981

Luminaire Tested: **24RLN-LD5-55-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295981
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-L93050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

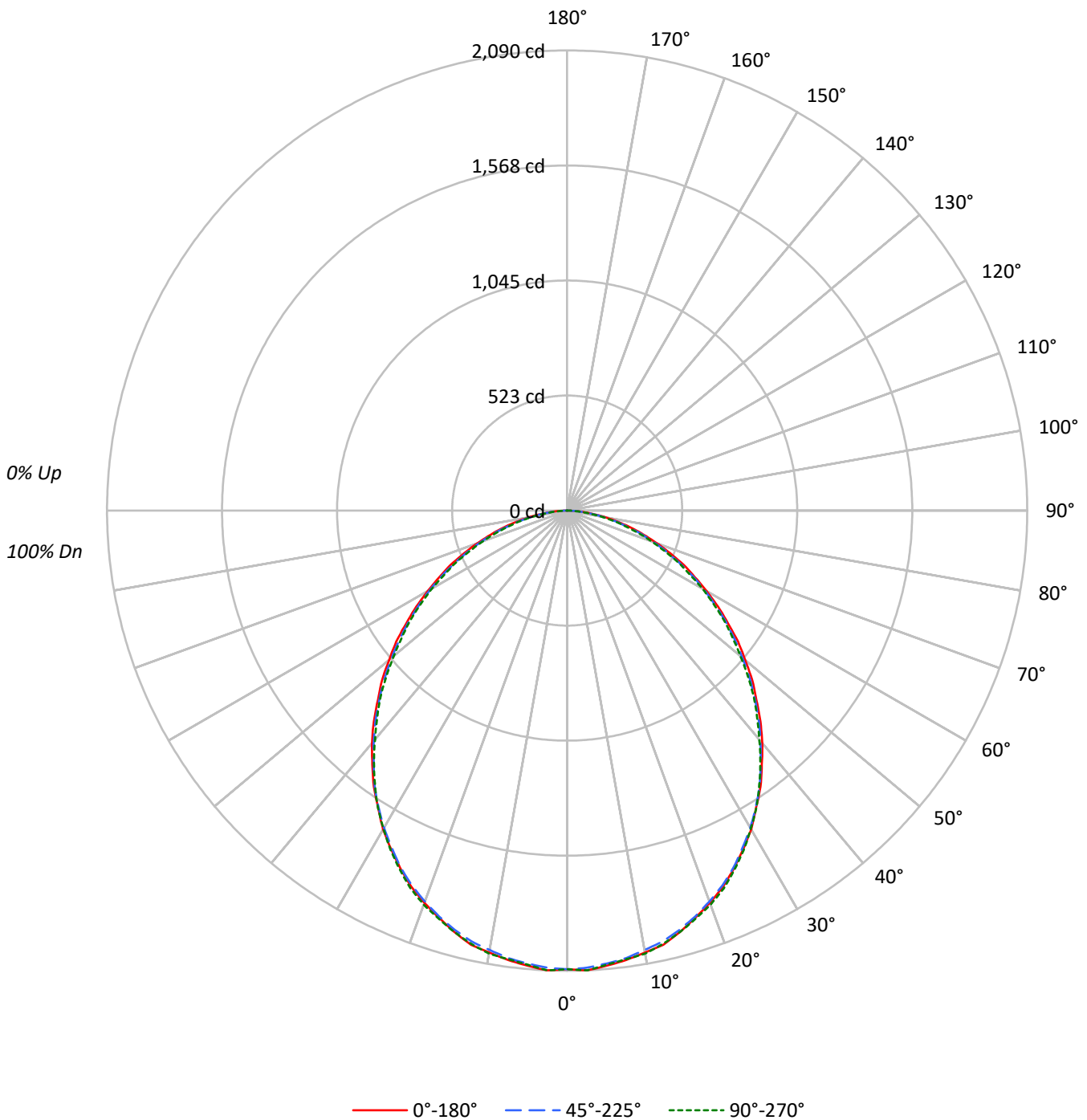
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2803	2803	2803
5°	2803	2789	2796
10°	2785	2769	2792
15°	2760	2746	2760
20°	2715	2705	2727
25°	2661	2656	2671
30°	2598	2585	2593
35°	2516	2505	2499
40°	2423	2399	2385
45°	2313	2291	2281
50°	2209	2174	2149
55°	2091	2059	2040
60°	1966	1930	1908
65°	1858	1789	1773
70°	1704	1638	1605
75°	1565	1469	1408
80°	1373	1282	1205
85°	1110	1033	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	3.8
10°-20°	557.3	10.8
20°-30°	824.3	15.9
30°-40°	951.4	18.4
40°-50°	929.2	17.9
50°-60°	784.6	15.1
60°-70°	558.9	10.8
70°-80°	302.6	5.8
80°-90°	78.1	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°	1578.2	30.4
0°-40°	2529.6	48.8
0°-60°	4243.4	81.9
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2075	2075	2065	2070	2070	197
15°	1981	1973	1971	1980	1981	558
25°	1792	1782	1789	1796	1799	825
35°	1532	1520	1525	1520	1522	956
45°	1216	1206	1204	1199	1199	940
55°	891	880	878	870	870	799
65°	584	572	562	555	557	575
75°	301	291	283	276	271	319
85°	72	70	67	58	57	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2083.4	2083.4	2083.4	2083.4	2083.4
2.5°	2090.1	2081.7	2078.4	2080.1	2090.1
5°	2075.1	2075.1	2065.0	2070.0	2070.0
7.5°	2058.3	2060.0	2050.0	2058.3	2055.0
10°	2038.3	2033.3	2026.6	2039.9	2043.3
12.5°	2019.9	2008.2	2004.8	2013.2	2014.9
15°	1981.4	1973.1	1971.4	1979.7	1981.4
17.5°	1937.9	1939.6	1932.9	1944.6	1943.0
20°	1896.1	1892.8	1889.5	1902.8	1904.5
22.5°	1849.3	1839.3	1842.6	1854.3	1857.7
25°	1792.5	1782.4	1789.1	1795.8	1799.2
27.5°	1732.3	1727.3	1725.6	1734.0	1737.3
30°	1672.1	1663.7	1663.7	1673.8	1668.7
32.5°	1598.5	1591.8	1595.2	1598.5	1600.2
35°	1531.6	1519.9	1524.9	1519.9	1521.6
37.5°	1453.0	1444.7	1443.0	1441.3	1441.3
40°	1379.5	1372.8	1366.1	1366.1	1357.7
42.5°	1299.2	1290.8	1287.5	1282.5	1277.5
45°	1215.6	1205.6	1203.9	1198.9	1198.9
47.5°	1140.4	1125.3	1123.6	1113.6	1113.6
50°	1055.1	1045.1	1038.4	1031.7	1026.7
52.5°	978.2	968.1	958.1	951.4	946.4
55°	891.2	879.5	877.8	869.5	869.5
57.5°	812.6	802.6	795.9	785.9	787.6
60°	730.7	720.7	717.3	709.0	709.0
62.5°	653.8	645.4	640.4	632.0	625.4
65°	583.6	571.9	561.8	555.1	556.8
67.5°	506.6	493.3	488.2	481.6	476.5
70°	433.1	424.7	416.3	408.0	408.0
72.5°	364.5	356.2	351.1	341.1	337.8
75°	301.0	290.9	282.6	275.9	270.9
77.5°	237.4	227.4	222.4	214.0	214.0
80°	177.2	170.6	165.5	162.2	155.5
82.5°	122.1	118.7	113.7	108.7	103.7
85°	71.9	70.2	66.9	58.5	56.9
87.5°	28.4	28.4	25.1	23.4	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)