

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: P295913

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295913
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-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5714.0 lumens
Efficiency: N/A
Efficacy: 145.6 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

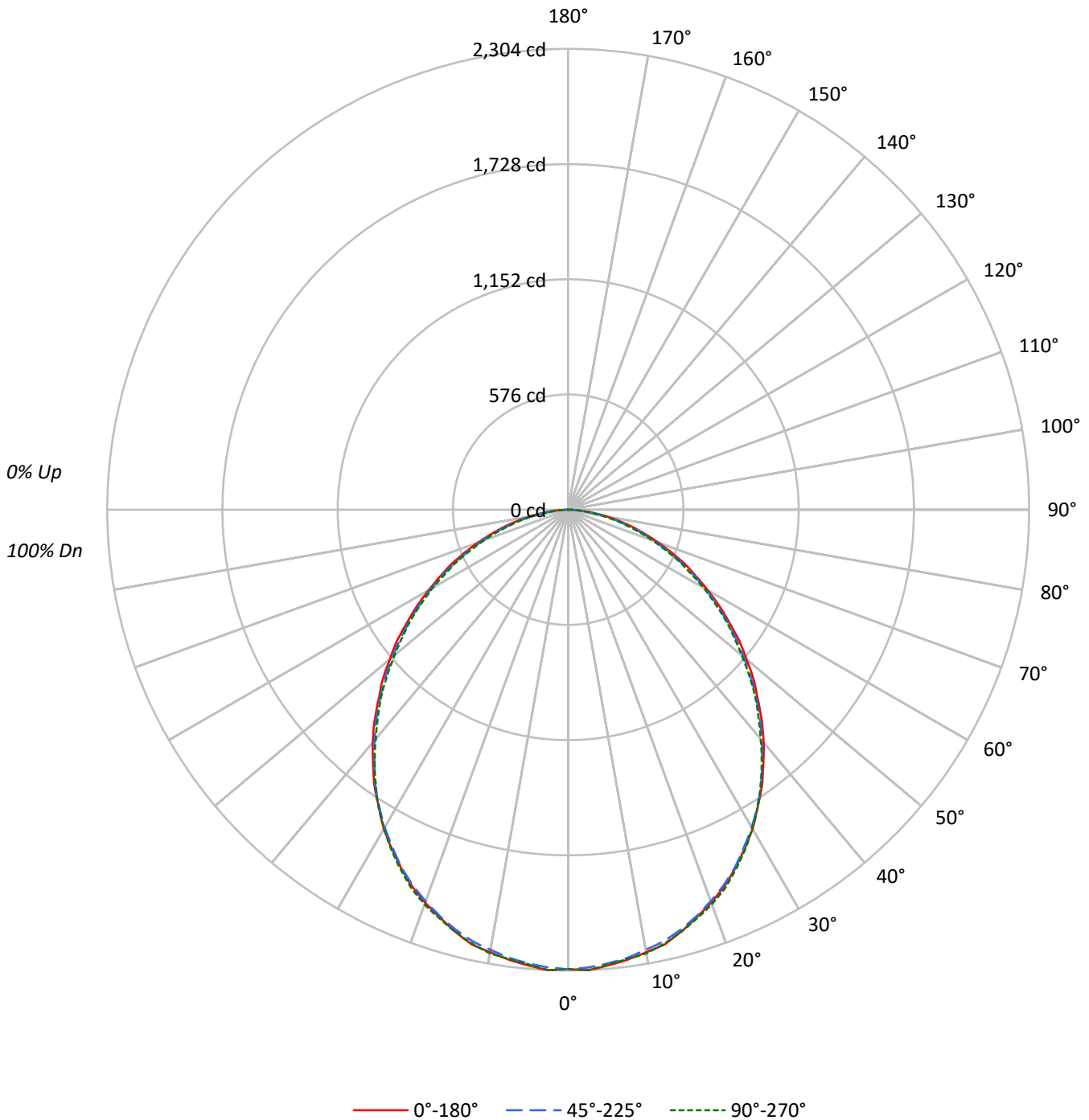
Input Watts (W): 39.246
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3090	3090	3090
5°	3090	3075	3082
10°	3070	3052	3078
15°	3043	3027	3043
20°	2993	2983	3006
25°	2934	2928	2945
30°	2864	2850	2858
35°	2773	2761	2755
40°	2671	2645	2629
45°	2550	2525	2515
50°	2435	2396	2369
55°	2305	2270	2249
60°	2168	2128	2103
65°	2048	1972	1954
70°	1878	1806	1769
75°	1725	1619	1552
80°	1514	1414	1328
85°	1224	1138	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	3.8
10°-20°	614.4	10.8
20°-30°	908.8	15.9
30°-40°	1048.8	18.4
40°-50°	1024.4	17.9
50°-60°	865.0	15.1
60°-70°	616.1	10.8
70°-80°	333.6	5.8
80°-90°	86.1	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°	1739.9	30.4
0°-40°	2788.7	48.8
0°-60°	4678.2	81.9
0°-90°	5714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2288	2288	2277	2282	2282	217
15°	2184	2175	2173	2183	2184	615
25°	1976	1965	1972	1980	1984	910
35°	1688	1676	1681	1676	1678	1054
45°	1340	1329	1327	1322	1322	1036
55°	982	970	968	959	959	881
65°	643	630	619	612	614	634
75°	332	321	312	304	299	351
85°	79	77	74	64	63	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.9	2296.9	2296.9	2296.9	2296.9
2.5°	2304.2	2295.0	2291.3	2293.2	2304.2
5°	2287.6	2287.6	2276.6	2282.1	2282.1
7.5°	2269.2	2271.1	2260.0	2269.2	2265.5
10°	2247.1	2241.6	2234.2	2248.9	2252.6
12.5°	2226.8	2213.9	2210.2	2219.4	2221.3
15°	2184.4	2175.2	2173.4	2182.6	2184.4
17.5°	2136.5	2138.3	2131.0	2143.9	2142.0
20°	2090.4	2086.7	2083.0	2097.8	2099.6
22.5°	2038.8	2027.7	2031.4	2044.3	2048.0
25°	1976.1	1965.1	1972.4	1979.8	1983.5
27.5°	1909.8	1904.2	1902.4	1911.6	1915.3
30°	1843.4	1834.2	1834.2	1845.2	1839.7
32.5°	1762.3	1754.9	1758.6	1762.3	1764.1
35°	1688.5	1675.6	1681.2	1675.6	1677.5
37.5°	1601.9	1592.7	1590.8	1589.0	1589.0
40°	1520.8	1513.4	1506.1	1506.1	1496.8
42.5°	1432.3	1423.1	1419.4	1413.9	1408.4
45°	1340.1	1329.1	1327.2	1321.7	1321.7
47.5°	1257.2	1240.6	1238.8	1227.7	1227.7
50°	1163.2	1152.1	1144.7	1137.4	1131.8
52.5°	1078.4	1067.3	1056.3	1048.9	1043.4
55°	982.5	969.6	967.8	958.6	958.6
57.5°	895.9	884.8	877.5	866.4	868.2
60°	805.6	794.5	790.8	781.6	781.6
62.5°	720.8	711.5	706.0	696.8	689.4
65°	643.3	630.4	619.4	612.0	613.8
67.5°	558.5	543.8	538.3	530.9	525.4
70°	477.4	468.2	459.0	449.8	449.8
72.5°	401.9	392.6	387.1	376.1	372.4
75°	331.8	320.8	311.5	304.2	298.6
77.5°	261.8	250.7	245.2	236.0	236.0
80°	195.4	188.0	182.5	178.8	171.4
82.5°	134.6	130.9	125.4	119.8	114.3
85°	79.3	77.4	73.7	64.5	62.7
87.5°	31.3	31.3	27.7	25.8	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)