

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: P295916

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295916
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5800.0 lumens
Efficiency: N/A
Efficacy: 145.0 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

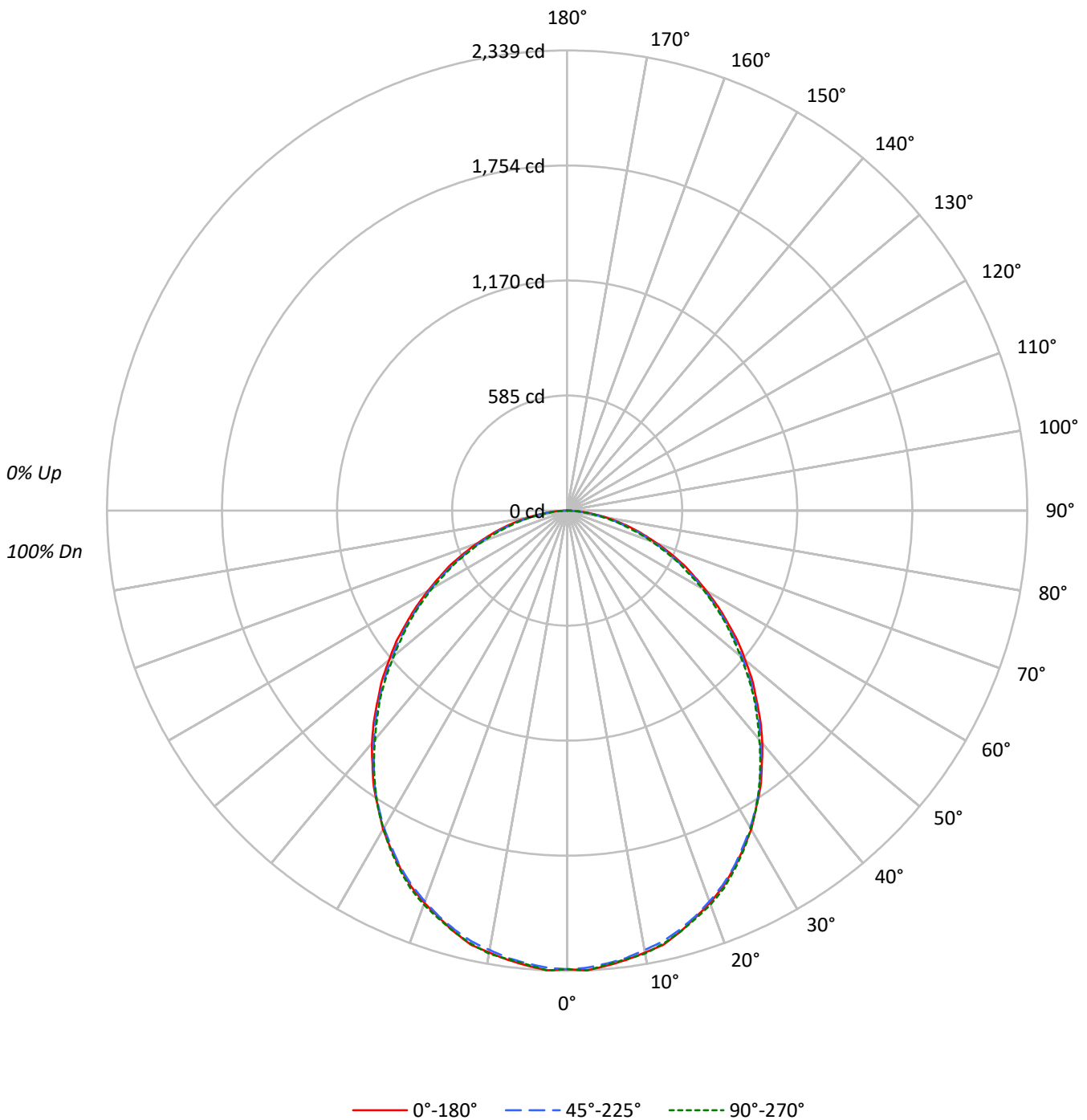
Input Watts (W): 39.99
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3137	3137	3137
5°	3136	3121	3129
10°	3116	3098	3124
15°	3089	3073	3089
20°	3038	3027	3052
25°	2978	2972	2989
30°	2907	2893	2901
35°	2815	2803	2797
40°	2711	2685	2669
45°	2588	2563	2553
50°	2471	2432	2405
55°	2339	2304	2282
60°	2200	2160	2135
65°	2079	2002	1984
70°	1906	1833	1796
75°	1751	1644	1576
80°	1537	1435	1348
85°	1243	1155	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	3.8
10°-20°	623.6	10.8
20°-30°	922.5	15.9
30°-40°	1064.6	18.4
40°-50°	1039.8	17.9
50°-60°	878.1	15.1
60°-70°	625.4	10.8
70°-80°	338.6	5.8
80°-90°	87.4	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°	1766.1	30.4
0°-40°	2830.7	48.8
0°-60°	4748.6	81.9
0°-90°	5800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2322	2322	2311	2316	2316	220
15°	2217	2208	2206	2215	2217	625
25°	2006	1995	2002	2010	2013	923
35°	1714	1701	1706	1701	1703	1070
45°	1360	1349	1347	1342	1342	1052
55°	997	984	982	973	973	894
65°	653	640	629	621	623	644
75°	337	326	316	309	303	356
85°	80	79	75	66	64	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2331.4	2331.4	2331.4	2331.4	2331.4
2.5°	2338.9	2329.6	2325.8	2327.7	2338.9
5°	2322.1	2322.1	2310.9	2316.5	2316.5
7.5°	2303.4	2305.2	2294.0	2303.4	2299.6
10°	2280.9	2275.3	2267.8	2282.8	2286.5
12.5°	2260.3	2247.2	2243.5	2252.8	2254.7
15°	2217.3	2207.9	2206.1	2215.4	2217.3
17.5°	2168.6	2170.5	2163.0	2176.1	2174.3
20°	2121.9	2118.1	2114.4	2129.4	2131.2
22.5°	2069.5	2058.2	2062.0	2075.1	2078.8
25°	2005.9	1994.6	2002.1	2009.6	2013.3
27.5°	1938.5	1932.9	1931.0	1940.4	1944.1
30°	1871.1	1861.8	1861.8	1873.0	1867.4
32.5°	1788.8	1781.3	1785.1	1788.8	1790.7
35°	1714.0	1700.9	1706.5	1700.9	1702.7
37.5°	1626.0	1616.7	1614.8	1612.9	1612.9
40°	1543.7	1536.2	1528.7	1528.7	1519.4
42.5°	1453.9	1444.5	1440.8	1435.2	1429.5
45°	1360.3	1349.1	1347.2	1341.6	1341.6
47.5°	1276.1	1259.3	1257.4	1246.2	1246.2
50°	1180.7	1169.5	1162.0	1154.5	1148.9
52.5°	1094.6	1083.4	1072.2	1064.7	1059.1
55°	997.3	984.2	982.3	973.0	973.0
57.5°	909.4	898.1	890.7	879.4	881.3
60°	817.7	806.5	802.7	793.4	793.4
62.5°	731.6	722.3	716.6	707.3	699.8
65°	653.0	639.9	628.7	621.2	623.1
67.5°	567.0	552.0	546.4	538.9	533.3
70°	484.6	475.3	465.9	456.6	456.6
72.5°	407.9	398.6	392.9	381.7	378.0
75°	336.8	325.6	316.2	308.7	303.1
77.5°	265.7	254.5	248.9	239.5	239.5
80°	198.3	190.9	185.2	181.5	174.0
82.5°	136.6	132.9	127.2	121.6	116.0
85°	80.5	78.6	74.8	65.5	63.6
87.5°	31.8	31.8	28.1	26.2	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)