

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: P296370

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6276.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

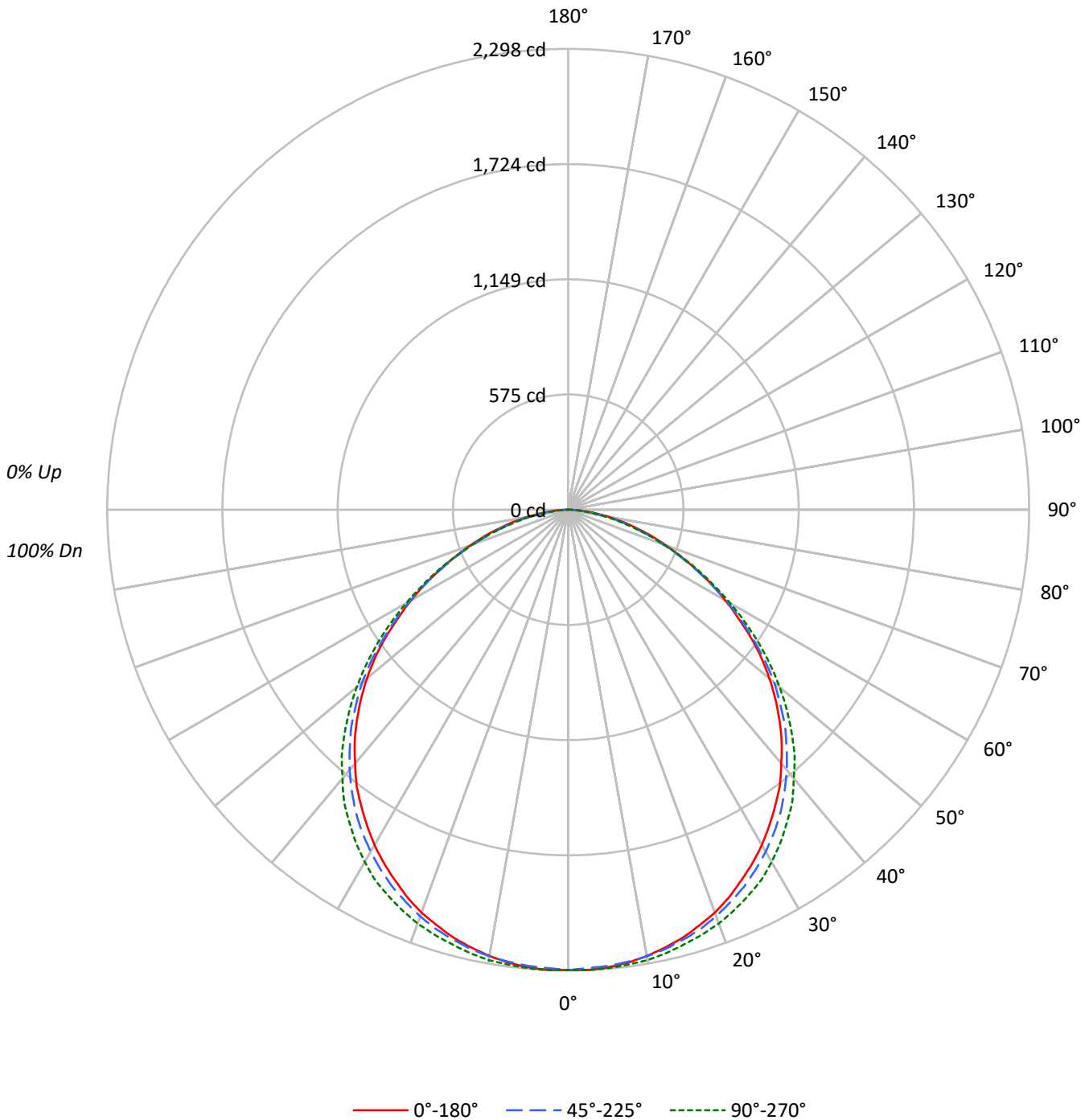
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3088	3088	3088
5°	3093	3084	3100
10°	3087	3090	3116
15°	3078	3091	3124
20°	3061	3089	3143
25°	3029	3079	3153
30°	3000	3059	3152
35°	2956	3031	3125
40°	2902	2977	3074
45°	2836	2908	2999
50°	2741	2806	2880
55°	2608	2642	2720
60°	2435	2447	2511
65°	2236	2221	2274
70°	2032	1976	1985
75°	1807	1708	1696
80°	1568	1402	1365
85°	1286	993	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	3.5
10°-20°	627.5	10.0
20°-30°	957.8	15.3
30°-40°	1154.7	18.4
40°-50°	1177.6	18.8
50°-60°	1007.8	16.1
60°-70°	694.2	11.1
70°-80°	355.9	5.7
80°-90°	82.8	1.3
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°	1803.0	28.7
0°-40°	2957.7	47.1
0°-60°	5143.1	81.9
0°-90°	6276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2295	2295	2295	2295	2295	
5°	2290	2286	2283	2290	2295	218
15°	2209	2207	2219	2236	2243	623
25°	2040	2048	2074	2109	2124	941
35°	1800	1807	1845	1886	1902	1126
45°	1490	1493	1528	1567	1576	1148
55°	1112	1105	1126	1150	1160	992
65°	702	686	698	702	714	698
75°	348	333	329	329	326	375
85°	83	74	64	57	50	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2295.2	2295.2	2295.2	2295.2	2295.2
2.5°	2297.5	2292.8	2288.0	2292.8	2297.5
5°	2290.4	2285.6	2283.3	2290.4	2295.2
7.5°	2278.5	2273.7	2273.7	2283.3	2288.0
10°	2259.4	2257.1	2261.8	2271.3	2280.9
12.5°	2235.6	2235.6	2242.8	2254.7	2264.2
15°	2209.4	2207.1	2219.0	2235.6	2242.8
17.5°	2173.7	2176.1	2192.8	2211.8	2221.4
20°	2138.0	2140.4	2157.1	2183.3	2195.2
22.5°	2092.8	2097.5	2116.6	2149.9	2161.8
25°	2040.4	2047.5	2073.7	2109.4	2123.7
27.5°	1988.0	1995.2	2023.7	2064.2	2083.3
30°	1930.9	1940.4	1969.0	2011.8	2028.5
32.5°	1866.6	1873.7	1909.5	1952.3	1969.0
35°	1799.9	1807.1	1845.2	1885.6	1902.3
37.5°	1733.3	1733.3	1771.4	1819.0	1835.6
40°	1652.3	1654.7	1695.2	1740.4	1749.9
42.5°	1576.1	1576.1	1611.8	1654.7	1671.4
45°	1490.4	1492.8	1528.5	1566.6	1576.1
47.5°	1402.3	1402.3	1433.3	1469.0	1478.5
50°	1309.5	1304.7	1340.4	1369.0	1376.1
52.5°	1214.2	1207.1	1235.7	1259.5	1269.0
55°	1111.9	1104.7	1126.2	1150.0	1159.5
57.5°	1004.7	995.2	1019.0	1040.4	1045.2
60°	904.7	890.4	909.5	921.4	933.3
62.5°	804.7	788.1	802.4	809.5	819.0
65°	702.4	685.7	697.6	702.4	714.3
67.5°	604.7	592.8	595.2	602.4	607.1
70°	516.6	502.4	502.4	502.4	504.7
72.5°	435.7	414.3	411.9	414.3	414.3
75°	347.6	333.3	328.6	328.6	326.2
77.5°	278.6	259.5	257.1	252.4	247.6
80°	202.4	185.7	180.9	178.6	176.2
82.5°	140.5	126.2	121.4	116.7	109.5
85°	83.3	73.8	64.3	57.1	50.0
87.5°	31.0	28.6	23.8	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)