

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: P296135

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296135
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-LD5-74-RDP-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6472.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

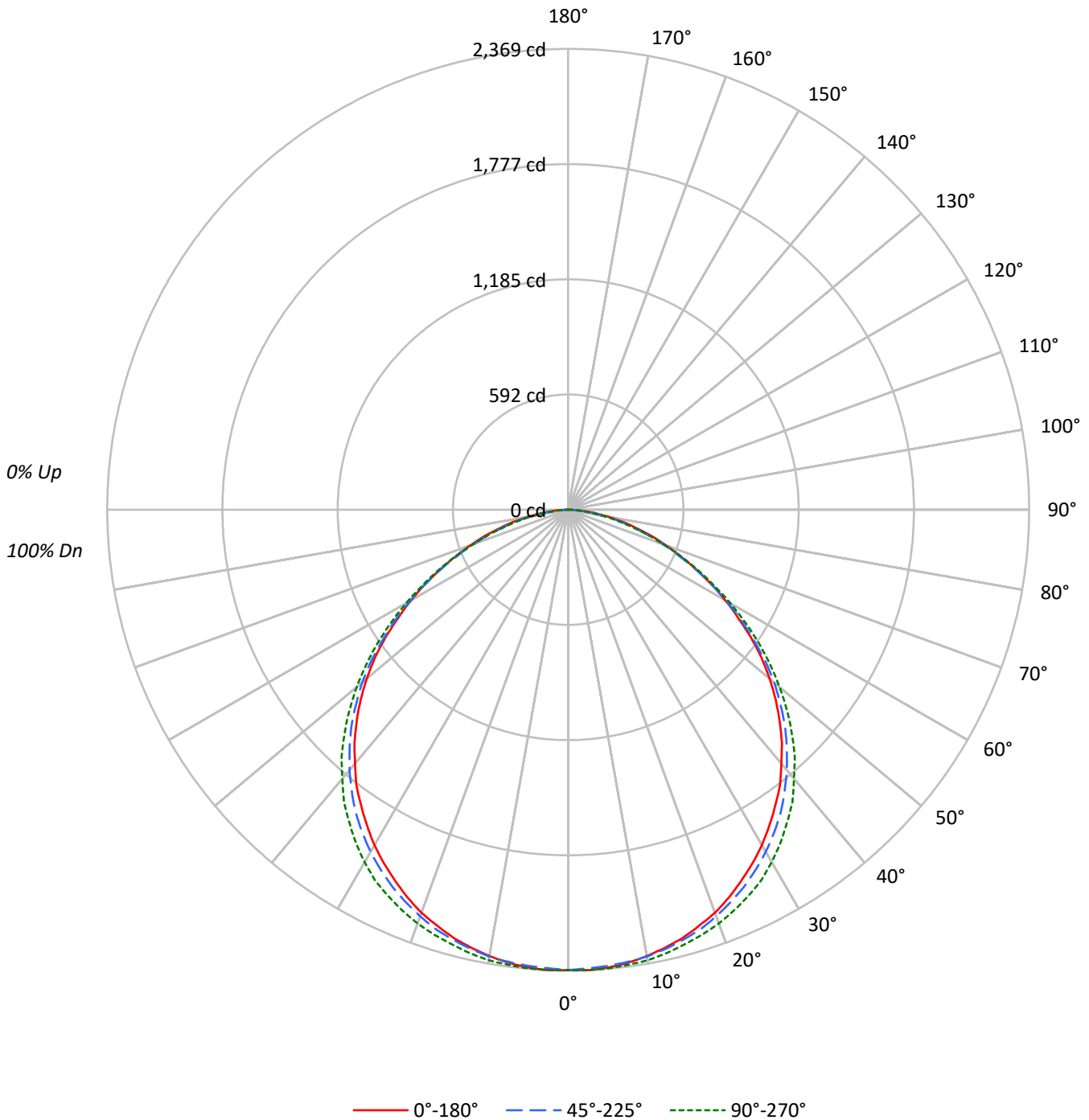
Input Watts (W): 56.358
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3185	3185	3185
5°	3190	3180	3197
10°	3183	3187	3214
15°	3174	3187	3222
20°	3157	3185	3241
25°	3124	3175	3251
30°	3094	3155	3250
35°	3049	3125	3222
40°	2993	3070	3170
45°	2925	2999	3093
50°	2827	2893	2970
55°	2690	2724	2805
60°	2511	2524	2590
65°	2306	2290	2345
70°	2096	2038	2048
75°	1864	1761	1749
80°	1617	1446	1408
85°	1326	1024	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	3.5
10°-20°	647.1	10.0
20°-30°	987.7	15.3
30°-40°	1190.8	18.4
40°-50°	1214.3	18.8
50°-60°	1039.3	16.1
60°-70°	715.9	11.1
70°-80°	367.0	5.7
80°-90°	85.4	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°	1859.3	28.7
0°-40°	3050.1	47.1
0°-60°	5303.7	81.9
0°-90°	6472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2367	2367	2367	2367	2367	
5°	2362	2357	2355	2362	2367	224
15°	2278	2276	2288	2306	2313	643
25°	2104	2112	2138	2175	2190	970
35°	1856	1864	1903	1944	1962	1161
45°	1537	1539	1576	1616	1625	1184
55°	1147	1139	1161	1186	1196	1023
65°	724	707	719	724	737	720
75°	358	344	339	339	336	386
85°	86	76	66	59	52	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2366.8	2366.8	2366.8	2366.8	2366.8
2.5°	2369.3	2364.4	2359.5	2364.4	2369.3
5°	2361.9	2357.0	2354.6	2361.9	2366.8
7.5°	2349.6	2344.7	2344.7	2354.6	2359.5
10°	2330.0	2327.6	2332.5	2342.3	2352.1
12.5°	2305.5	2305.5	2312.8	2325.1	2334.9
15°	2278.4	2276.0	2288.3	2305.5	2312.8
17.5°	2241.6	2244.1	2261.3	2280.9	2290.7
20°	2204.8	2207.2	2224.4	2251.4	2263.7
22.5°	2158.1	2163.1	2182.7	2217.1	2229.3
25°	2104.1	2111.5	2138.5	2175.3	2190.1
27.5°	2050.1	2057.5	2086.9	2128.7	2148.3
30°	1991.2	2001.0	2030.5	2074.7	2091.9
32.5°	1924.9	1932.3	1969.1	2013.3	2030.5
35°	1856.1	1863.5	1902.8	1944.5	1961.7
37.5°	1787.4	1787.4	1826.7	1875.8	1893.0
40°	1703.9	1706.4	1748.1	1794.8	1804.6
42.5°	1625.4	1625.4	1662.2	1706.4	1723.6
45°	1537.0	1539.4	1576.3	1615.5	1625.4
47.5°	1446.1	1446.1	1478.0	1514.9	1524.7
50°	1350.4	1345.5	1382.3	1411.8	1419.1
52.5°	1252.2	1244.8	1274.3	1298.8	1308.6
55°	1146.6	1139.2	1161.3	1185.9	1195.7
57.5°	1036.1	1026.3	1050.8	1072.9	1077.8
60°	933.0	918.3	937.9	950.2	962.4
62.5°	829.9	812.7	827.4	834.8	844.6
65°	724.3	707.1	719.4	724.3	736.6
67.5°	623.6	611.4	613.8	621.2	626.1
70°	532.8	518.1	518.1	518.1	520.5
72.5°	449.3	427.2	424.8	427.2	427.2
75°	358.5	343.7	338.8	338.8	336.4
77.5°	287.3	267.6	265.2	260.3	255.3
80°	208.7	191.5	186.6	184.1	181.7
82.5°	144.9	130.1	125.2	120.3	112.9
85°	85.9	76.1	66.3	58.9	51.6
87.5°	31.9	29.5	24.6	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)