

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: P296222

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296222
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-L82765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6427.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

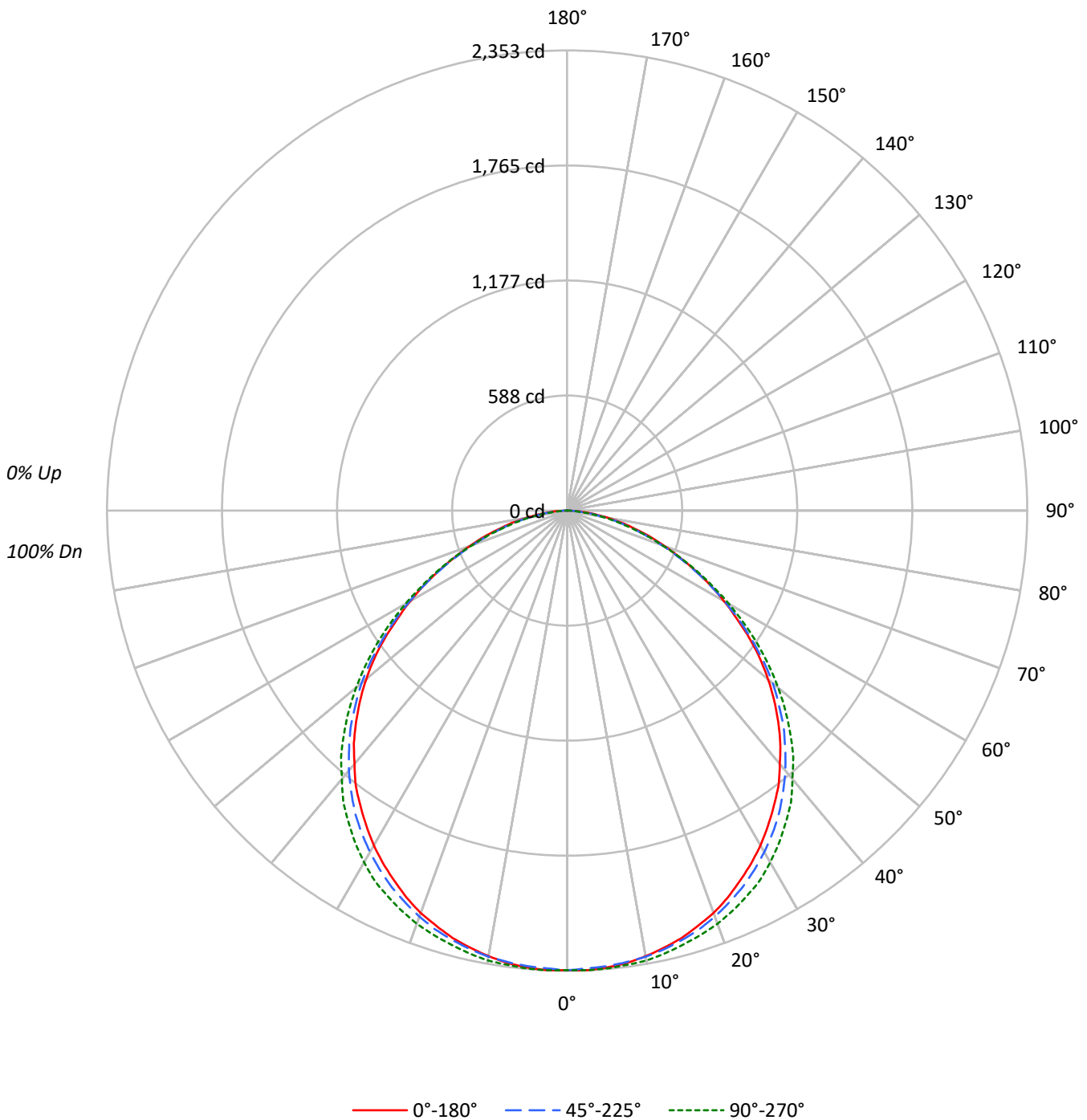
Input Watts (W): 56.637
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3162	3162	3162
5°	3168	3158	3175
10°	3161	3164	3191
15°	3152	3165	3199
20°	3135	3163	3219
25°	3102	3153	3229
30°	3072	3133	3227
35°	3028	3104	3200
40°	2972	3049	3147
45°	2904	2978	3071
50°	2807	2873	2950
55°	2671	2705	2785
60°	2493	2506	2572
65°	2290	2274	2329
70°	2081	2024	2033
75°	1851	1749	1736
80°	1605	1436	1398
85°	1317	1016	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.5
10°-20°	642.6	10.0
20°-30°	980.9	15.3
30°-40°	1182.5	18.4
40°-50°	1205.9	18.8
50°-60°	1032.0	16.1
60°-70°	710.9	11.1
70°-80°	364.4	5.7
80°-90°	84.8	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°	1846.4	28.7
0°-40°	3028.9	47.1
0°-60°	5266.8	81.9
0°-90°	6427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2350	2350	2350	2350	2350	
5°	2346	2341	2338	2346	2350	223
15°	2263	2260	2272	2289	2297	638
25°	2090	2097	2124	2160	2175	964
35°	1843	1851	1890	1931	1948	1153
45°	1526	1529	1565	1604	1614	1176
55°	1139	1131	1153	1178	1187	1016
65°	719	702	714	719	731	715
75°	356	341	336	336	334	384
85°	85	76	66	58	51	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2350.4	2350.4	2350.4	2350.4	2350.4
2.5°	2352.8	2347.9	2343.1	2347.9	2352.8
5°	2345.5	2340.6	2338.2	2345.5	2350.4
7.5°	2333.3	2328.4	2328.4	2338.2	2343.1
10°	2313.8	2311.4	2316.2	2326.0	2335.7
12.5°	2289.4	2289.4	2296.7	2308.9	2318.7
15°	2262.6	2260.2	2272.4	2289.4	2296.7
17.5°	2226.0	2228.5	2245.5	2265.0	2274.8
20°	2189.5	2191.9	2209.0	2235.8	2248.0
22.5°	2143.1	2148.0	2167.5	2201.7	2213.8
25°	2089.5	2096.8	2123.6	2160.2	2174.8
27.5°	2035.9	2043.2	2072.4	2113.9	2133.4
30°	1977.3	1987.1	2016.4	2060.2	2077.3
32.5°	1911.5	1918.8	1955.4	1999.3	2016.4
35°	1843.2	1850.6	1889.6	1931.0	1948.1
37.5°	1775.0	1775.0	1814.0	1862.7	1879.8
40°	1692.1	1694.5	1736.0	1782.3	1792.0
42.5°	1614.1	1614.1	1650.6	1694.5	1711.6
45°	1526.3	1528.7	1565.3	1604.3	1614.1
47.5°	1436.1	1436.1	1467.8	1504.3	1514.1
50°	1341.0	1336.1	1372.7	1401.9	1409.3
52.5°	1243.5	1236.1	1265.4	1289.8	1299.5
55°	1138.6	1131.3	1153.2	1177.6	1187.4
57.5°	1028.9	1019.1	1043.5	1065.5	1070.3
60°	926.5	911.9	931.4	943.6	955.8
62.5°	824.1	807.0	821.7	829.0	838.7
65°	719.3	702.2	714.4	719.3	731.4
67.5°	619.3	607.1	609.5	616.9	621.7
70°	529.1	514.5	514.5	514.5	516.9
72.5°	446.2	424.2	421.8	424.2	424.2
75°	356.0	341.3	336.5	336.5	334.0
77.5°	285.3	265.8	263.3	258.4	253.6
80°	207.2	190.2	185.3	182.9	180.4
82.5°	143.9	129.2	124.3	119.5	112.2
85°	85.3	75.6	65.8	58.5	51.2
87.5°	31.7	29.3	24.4	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)