

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: P296223

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296223
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6443.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

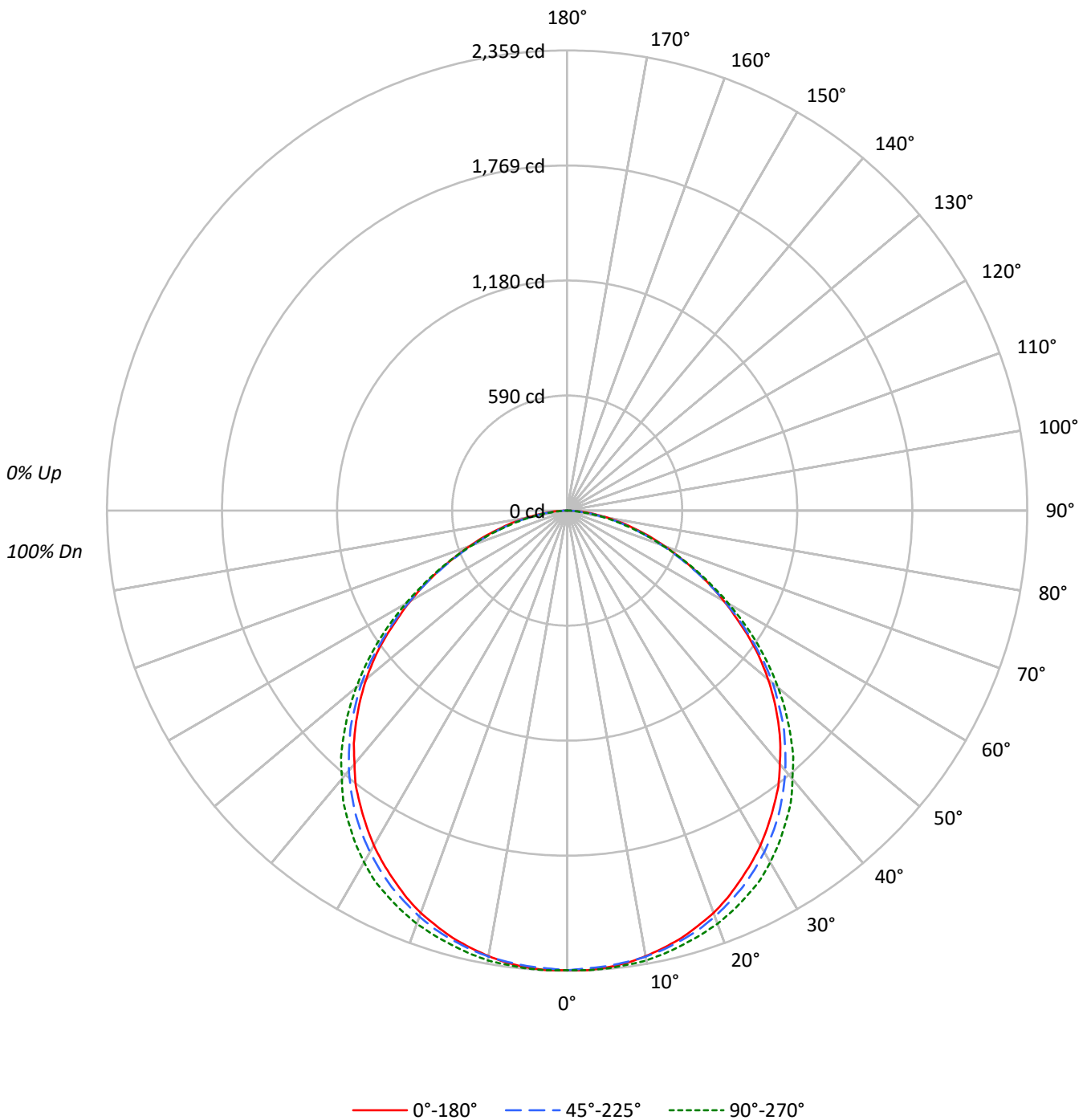
Input Watts (W): 57.474
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3170	3170	3170
5°	3176	3166	3182
10°	3169	3172	3199
15°	3159	3173	3207
20°	3143	3171	3227
25°	3110	3161	3237
30°	3080	3141	3235
35°	3035	3111	3208
40°	2979	3057	3155
45°	2911	2986	3079
50°	2814	2880	2957
55°	2678	2712	2792
60°	2499	2513	2578
65°	2295	2280	2335
70°	2087	2029	2039
75°	1855	1753	1741
80°	1610	1440	1402
85°	1320	1019	792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	3.5
10°-20°	644.2	10.0
20°-30°	983.3	15.3
30°-40°	1185.5	18.4
40°-50°	1208.9	18.8
50°-60°	1034.6	16.1
60°-70°	712.7	11.1
70°-80°	365.4	5.7
80°-90°	85.0	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°	1851.0	28.7
0°-40°	3036.5	47.1
0°-60°	5280.0	81.9
0°-90°	6443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2356	2356	2356	2356	2356	
5°	2351	2346	2344	2351	2356	223
15°	2268	2266	2278	2295	2302	640
25°	2095	2102	2129	2166	2180	966
35°	1848	1855	1894	1936	1953	1156
45°	1530	1532	1569	1608	1618	1179
55°	1142	1134	1156	1181	1190	1018
65°	721	704	716	721	733	716
75°	357	342	337	337	335	385
85°	86	76	66	59	51	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2356.2	2356.2	2356.2	2356.2	2356.2
2.5°	2358.7	2353.8	2348.9	2353.8	2358.7
5°	2351.3	2346.5	2344.0	2351.3	2356.2
7.5°	2339.1	2334.2	2334.2	2344.0	2348.9
10°	2319.6	2317.1	2322.0	2331.8	2341.6
12.5°	2295.1	2295.1	2302.5	2314.7	2324.5
15°	2268.2	2265.8	2278.0	2295.1	2302.5
17.5°	2231.6	2234.0	2251.1	2270.7	2280.5
20°	2194.9	2197.4	2214.5	2241.4	2253.6
22.5°	2148.5	2153.4	2172.9	2207.1	2219.4
25°	2094.7	2102.0	2128.9	2165.6	2180.2
27.5°	2040.9	2048.3	2077.6	2119.1	2138.7
30°	1982.3	1992.0	2021.4	2065.4	2082.5
32.5°	1916.3	1923.6	1960.3	2004.3	2021.4
35°	1847.8	1855.2	1894.3	1935.8	1952.9
37.5°	1779.4	1779.4	1818.5	1867.4	1884.5
40°	1696.3	1698.7	1740.3	1786.7	1796.5
42.5°	1618.1	1618.1	1654.7	1698.7	1715.8
45°	1530.1	1532.5	1569.2	1608.3	1618.1
47.5°	1439.6	1439.6	1471.4	1508.1	1517.9
50°	1344.3	1339.4	1376.1	1405.4	1412.8
52.5°	1246.6	1239.2	1268.6	1293.0	1302.8
55°	1141.5	1134.1	1156.1	1180.6	1190.3
57.5°	1031.5	1021.7	1046.1	1068.1	1073.0
60°	928.8	914.1	933.7	945.9	958.1
62.5°	826.1	809.0	823.7	831.0	840.8
65°	721.0	703.9	716.2	721.0	733.3
67.5°	620.8	608.6	611.1	618.4	623.3
70°	530.4	515.7	515.7	515.7	518.2
72.5°	447.3	425.3	422.9	425.3	425.3
75°	356.9	342.2	337.3	337.3	334.9
77.5°	286.0	266.4	264.0	259.1	254.2
80°	207.8	190.6	185.8	183.3	180.9
82.5°	144.2	129.5	124.7	119.8	112.4
85°	85.5	75.8	66.0	58.7	51.3
87.5°	31.8	29.3	24.4	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)