

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: P296363

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296363
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-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5850.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

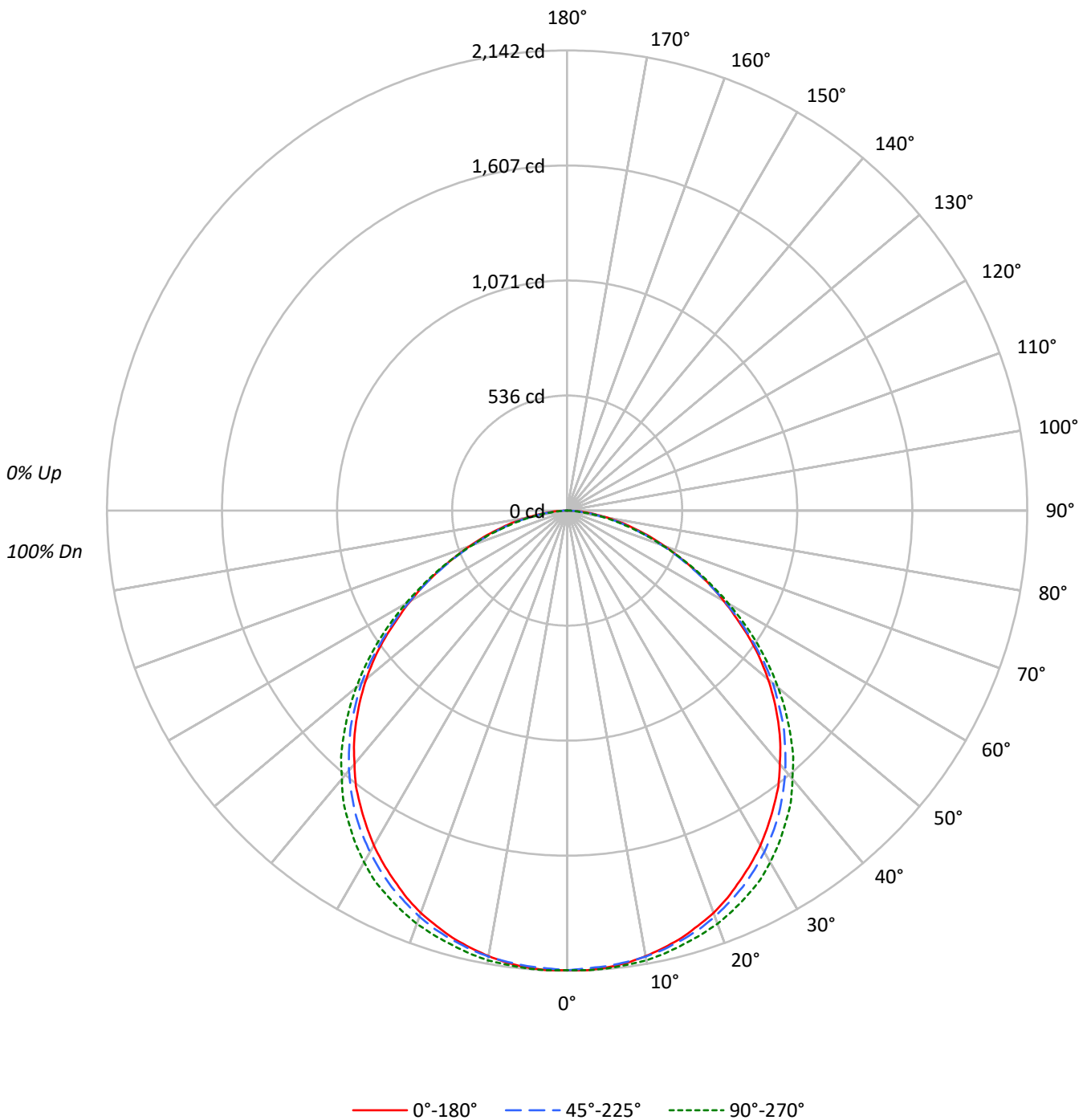
Input Watts (W): 57.66
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2879	2879	2879
5°	2883	2875	2890
10°	2877	2880	2905
15°	2869	2881	2912
20°	2854	2879	2930
25°	2824	2870	2939
30°	2796	2851	2938
35°	2756	2825	2913
40°	2705	2775	2865
45°	2644	2711	2796
50°	2555	2615	2685
55°	2431	2462	2535
60°	2269	2281	2341
65°	2084	2070	2120
70°	1895	1842	1851
75°	1684	1592	1580
80°	1461	1307	1272
85°	1200	925	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	3.5
10°-20°	584.9	10.0
20°-30°	892.8	15.3
30°-40°	1076.4	18.4
40°-50°	1097.6	18.8
50°-60°	939.4	16.1
60°-70°	647.1	11.1
70°-80°	331.7	5.7
80°-90°	77.2	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°	1680.6	28.7
0°-40°	2757.0	47.1
0°-60°	4794.0	81.9
0°-90°	5850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2139	2139	2139	2139	2139	
5°	2135	2130	2128	2135	2139	203
15°	2060	2057	2068	2084	2090	581
25°	1902	1909	1933	1966	1980	877
35°	1678	1684	1720	1758	1773	1050
45°	1389	1392	1425	1460	1469	1070
55°	1036	1030	1050	1072	1081	925
65°	655	639	650	655	666	651
75°	324	311	306	306	304	349
85°	78	69	60	53	47	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.4	2139.4	2139.4	2139.4	2139.4
2.5°	2141.6	2137.1	2132.7	2137.1	2141.6
5°	2134.9	2130.5	2128.3	2134.9	2139.4
7.5°	2123.8	2119.4	2119.4	2128.3	2132.7
10°	2106.1	2103.9	2108.3	2117.2	2126.1
12.5°	2083.9	2083.9	2090.5	2101.6	2110.5
15°	2059.5	2057.3	2068.4	2083.9	2090.5
17.5°	2026.2	2028.4	2043.9	2061.7	2070.6
20°	1992.9	1995.1	2010.7	2035.1	2046.2
22.5°	1950.7	1955.2	1972.9	2004.0	2015.1
25°	1901.9	1908.6	1933.0	1966.3	1979.6
27.5°	1853.1	1859.7	1886.4	1924.1	1941.9
30°	1799.8	1808.7	1835.3	1875.3	1890.8
32.5°	1739.9	1746.6	1779.8	1819.8	1835.3
35°	1677.8	1684.4	1719.9	1757.7	1773.2
37.5°	1615.6	1615.6	1651.1	1695.5	1711.0
40°	1540.2	1542.4	1580.1	1622.3	1631.2
42.5°	1469.2	1469.2	1502.4	1542.4	1557.9
45°	1389.3	1391.5	1424.8	1460.3	1469.2
47.5°	1307.1	1307.1	1336.0	1369.3	1378.2
50°	1220.6	1216.2	1249.4	1276.1	1282.7
52.5°	1131.8	1125.2	1151.8	1174.0	1182.9
55°	1036.4	1029.7	1049.7	1071.9	1080.8
57.5°	936.5	927.7	949.8	969.8	974.3
60°	843.3	830.0	847.8	858.9	870.0
62.5°	750.1	734.6	747.9	754.5	763.4
65°	654.7	639.1	650.2	654.7	665.8
67.5°	563.7	552.6	554.8	561.5	565.9
70°	481.6	468.3	468.3	468.3	470.5
72.5°	406.1	386.2	383.9	386.2	386.2
75°	324.0	310.7	306.3	306.3	304.0
77.5°	259.7	241.9	239.7	235.2	230.8
80°	188.6	173.1	168.7	166.4	164.2
82.5°	130.9	117.6	113.2	108.7	102.1
85°	77.7	68.8	59.9	53.3	46.6
87.5°	28.9	26.6	22.2	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)