

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: P296276

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296276
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-L93050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5757.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

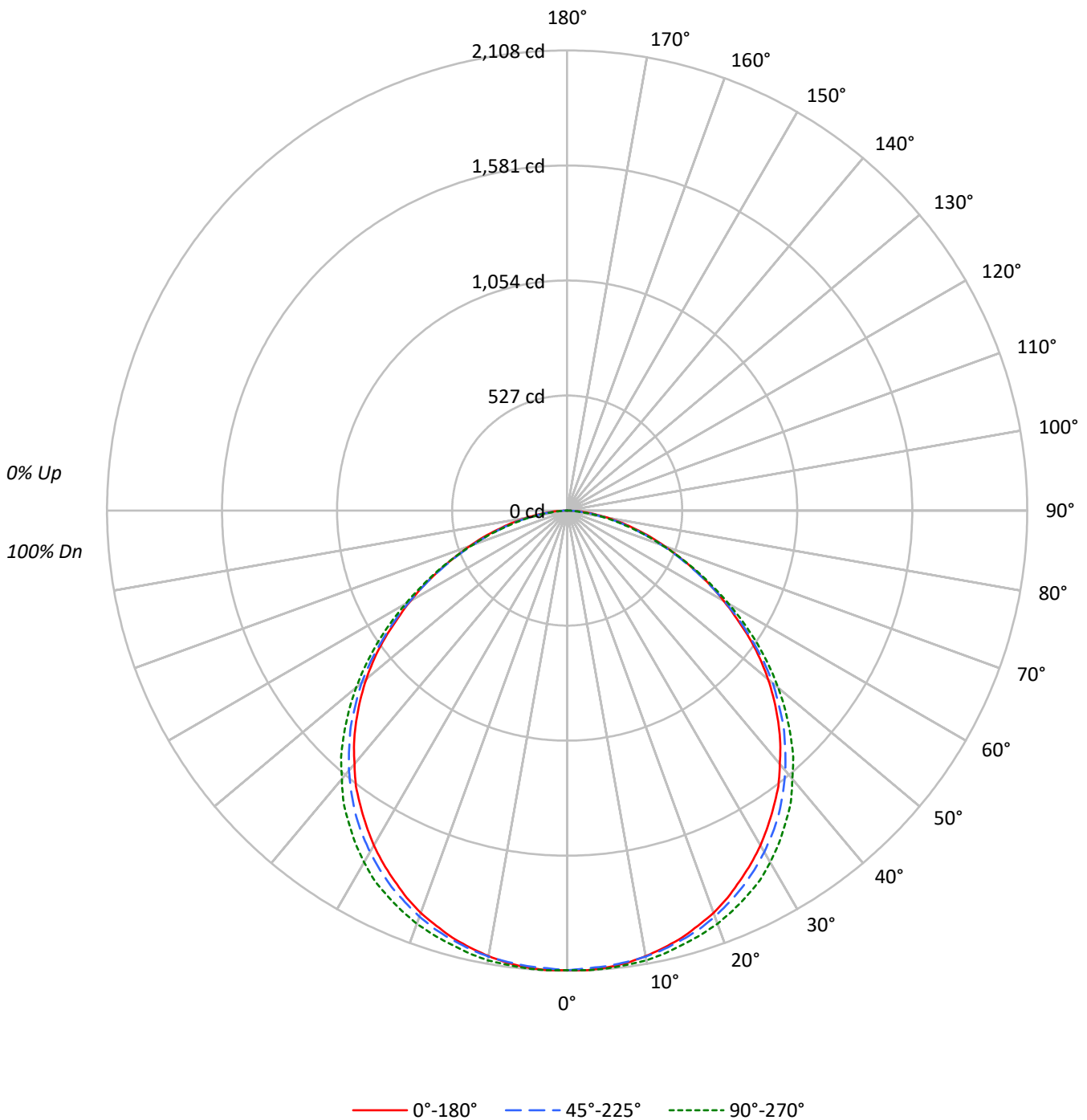
Input Watts (W): 57.381
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2833	2833	2833
5°	2838	2829	2844
10°	2832	2835	2859
15°	2823	2835	2866
20°	2808	2833	2883
25°	2779	2824	2892
30°	2752	2806	2891
35°	2712	2780	2866
40°	2662	2731	2819
45°	2602	2668	2751
50°	2514	2574	2642
55°	2392	2423	2495
60°	2233	2245	2304
65°	2051	2037	2086
70°	1864	1813	1821
75°	1658	1567	1555
80°	1438	1286	1252
85°	1179	911	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	3.5
10°-20°	575.6	10.0
20°-30°	878.6	15.3
30°-40°	1059.2	18.4
40°-50°	1080.2	18.8
50°-60°	924.4	16.1
60°-70°	636.8	11.1
70°-80°	326.4	5.7
80°-90°	76.0	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°	1653.9	28.7
0°-40°	2713.2	47.1
0°-60°	4717.8	81.9
0°-90°	5757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2101	2097	2094	2101	2105	200
15°	2027	2024	2036	2051	2057	572
25°	1872	1878	1902	1935	1948	863
35°	1651	1658	1693	1730	1745	1033
45°	1367	1369	1402	1437	1446	1053
55°	1020	1013	1033	1055	1064	910
65°	644	629	640	644	655	640
75°	319	306	301	301	299	344
85°	76	68	59	52	46	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2107.5	2103.2	2098.8	2103.2	2107.5
5°	2101.0	2096.6	2094.4	2101.0	2105.4
7.5°	2090.1	2085.7	2085.7	2094.4	2098.8
10°	2072.6	2070.4	2074.8	2083.5	2092.3
12.5°	2050.8	2050.8	2057.3	2068.2	2077.0
15°	2026.7	2024.5	2035.5	2050.8	2057.3
17.5°	1994.0	1996.2	2011.4	2028.9	2037.7
20°	1961.2	1963.4	1978.7	2002.7	2013.6
22.5°	1919.7	1924.1	1941.6	1972.1	1983.1
25°	1871.7	1878.2	1902.2	1935.0	1948.1
27.5°	1823.6	1830.2	1856.4	1893.5	1911.0
30°	1771.2	1779.9	1806.2	1845.5	1860.8
32.5°	1712.2	1718.8	1751.6	1790.9	1806.2
35°	1651.1	1657.6	1692.6	1729.7	1745.0
37.5°	1589.9	1589.9	1624.9	1668.6	1683.8
40°	1515.7	1517.9	1555.0	1596.5	1605.2
42.5°	1445.8	1445.8	1478.6	1517.9	1533.2
45°	1367.2	1369.4	1402.1	1437.1	1445.8
47.5°	1286.4	1286.4	1314.8	1347.5	1356.3
50°	1201.2	1196.8	1229.6	1255.8	1262.3
52.5°	1113.8	1107.3	1133.5	1155.3	1164.1
55°	1019.9	1013.4	1033.0	1054.9	1063.6
57.5°	921.6	912.9	934.7	954.4	958.8
60°	829.9	816.8	834.3	845.2	856.1
62.5°	738.2	722.9	736.0	742.6	751.3
65°	644.3	629.0	639.9	644.3	655.2
67.5°	554.7	543.8	546.0	552.5	556.9
70°	473.9	460.8	460.8	460.8	463.0
72.5°	399.7	380.0	377.8	380.0	380.0
75°	318.9	305.8	301.4	301.4	299.2
77.5°	255.5	238.1	235.9	231.5	227.1
80°	185.6	170.4	166.0	163.8	161.6
82.5°	128.9	115.8	111.4	107.0	100.5
85°	76.4	67.7	59.0	52.4	45.9
87.5°	28.4	26.2	21.8	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)