

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: P296127

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296127
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-LD5-60-RDP-UNV-L83050-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5295.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

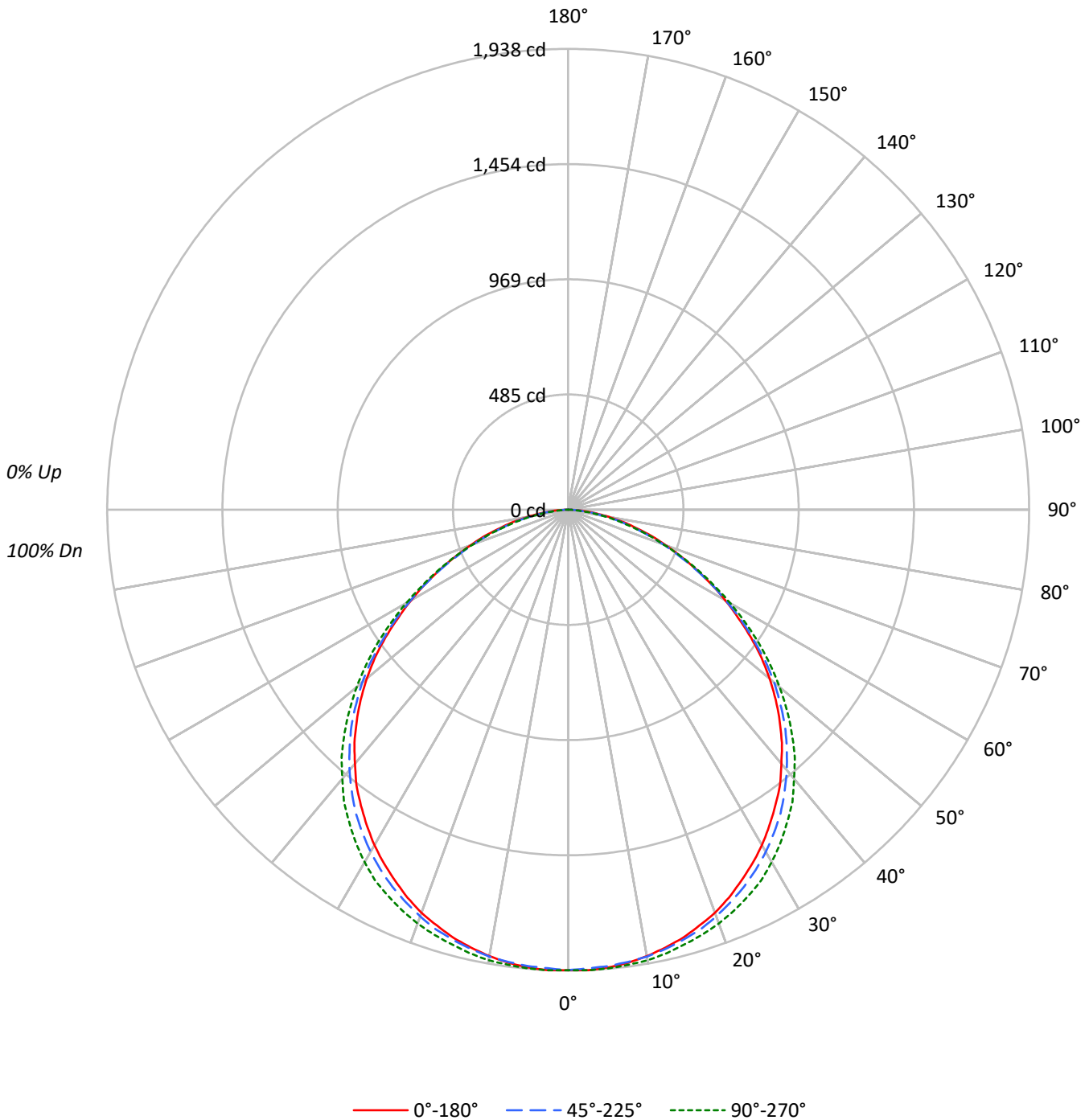
Input Watts (W): 45.384
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2605	2605	2605
5°	2610	2602	2615
10°	2604	2607	2629
15°	2597	2608	2636
20°	2583	2606	2652
25°	2556	2597	2660
30°	2531	2581	2659
35°	2494	2557	2636
40°	2448	2512	2593
45°	2393	2454	2530
50°	2313	2367	2430
55°	2201	2229	2295
60°	2054	2065	2119
65°	1887	1874	1918
70°	1715	1667	1675
75°	1525	1441	1431
80°	1323	1183	1151
85°	1085	837	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	3.5
10°-20°	529.4	10.0
20°-30°	808.1	15.3
30°-40°	974.2	18.4
40°-50°	993.5	18.8
50°-60°	850.2	16.1
60°-70°	585.7	11.1
70°-80°	300.2	5.7
80°-90°	69.9	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°	1521.2	28.7
0°-40°	2495.4	47.1
0°-60°	4339.2	81.9
0°-90°	5295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1932	1928	1926	1932	1936	184
15°	1864	1862	1872	1886	1892	526
25°	1722	1728	1750	1780	1792	794
35°	1519	1525	1557	1591	1605	950
45°	1258	1260	1290	1322	1330	969
55°	938	932	950	970	978	837
65°	593	578	589	593	603	589
75°	293	281	277	277	275	316
85°	70	62	54	48	42	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.4	1936.4	1936.4	1936.4	1936.4
2.5°	1938.4	1934.4	1930.4	1934.4	1938.4
5°	1932.4	1928.4	1926.4	1932.4	1936.4
7.5°	1922.3	1918.3	1918.3	1926.4	1930.4
10°	1906.3	1904.3	1908.3	1916.3	1924.3
12.5°	1886.2	1886.2	1892.2	1902.3	1910.3
15°	1864.1	1862.1	1872.1	1886.2	1892.2
17.5°	1834.0	1836.0	1850.0	1866.1	1874.1
20°	1803.8	1805.8	1819.9	1842.0	1852.0
22.5°	1765.7	1769.7	1785.7	1813.9	1823.9
25°	1721.5	1727.5	1749.6	1779.7	1791.8
27.5°	1677.3	1683.3	1707.4	1741.6	1757.6
30°	1629.1	1637.1	1661.2	1697.4	1711.4
32.5°	1574.8	1580.9	1611.0	1647.1	1661.2
35°	1518.6	1524.6	1556.8	1590.9	1605.0
37.5°	1462.3	1462.3	1494.5	1534.7	1548.7
40°	1394.0	1396.1	1430.2	1468.4	1476.4
42.5°	1329.8	1329.8	1359.9	1396.1	1410.1
45°	1257.5	1259.5	1289.6	1321.7	1329.8
47.5°	1183.1	1183.1	1209.2	1239.4	1247.4
50°	1104.8	1100.8	1130.9	1155.0	1161.0
52.5°	1024.4	1018.4	1042.5	1062.6	1070.6
55°	938.1	932.0	950.1	970.2	978.2
57.5°	847.7	839.6	859.7	877.8	881.8
60°	763.3	751.3	767.3	777.4	787.4
62.5°	678.9	664.9	676.9	683.0	691.0
65°	592.6	578.5	588.6	592.6	602.6
67.5°	510.2	500.2	502.2	508.2	512.2
70°	435.9	423.8	423.8	423.8	425.8
72.5°	367.6	349.5	347.5	349.5	349.5
75°	293.3	281.2	277.2	277.2	275.2
77.5°	235.0	218.9	216.9	212.9	208.9
80°	170.7	156.7	152.7	150.7	148.6
82.5°	118.5	106.5	102.4	98.4	92.4
85°	70.3	62.3	54.2	48.2	42.2
87.5°	26.1	24.1	20.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)