

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: P296357

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296357
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5274.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

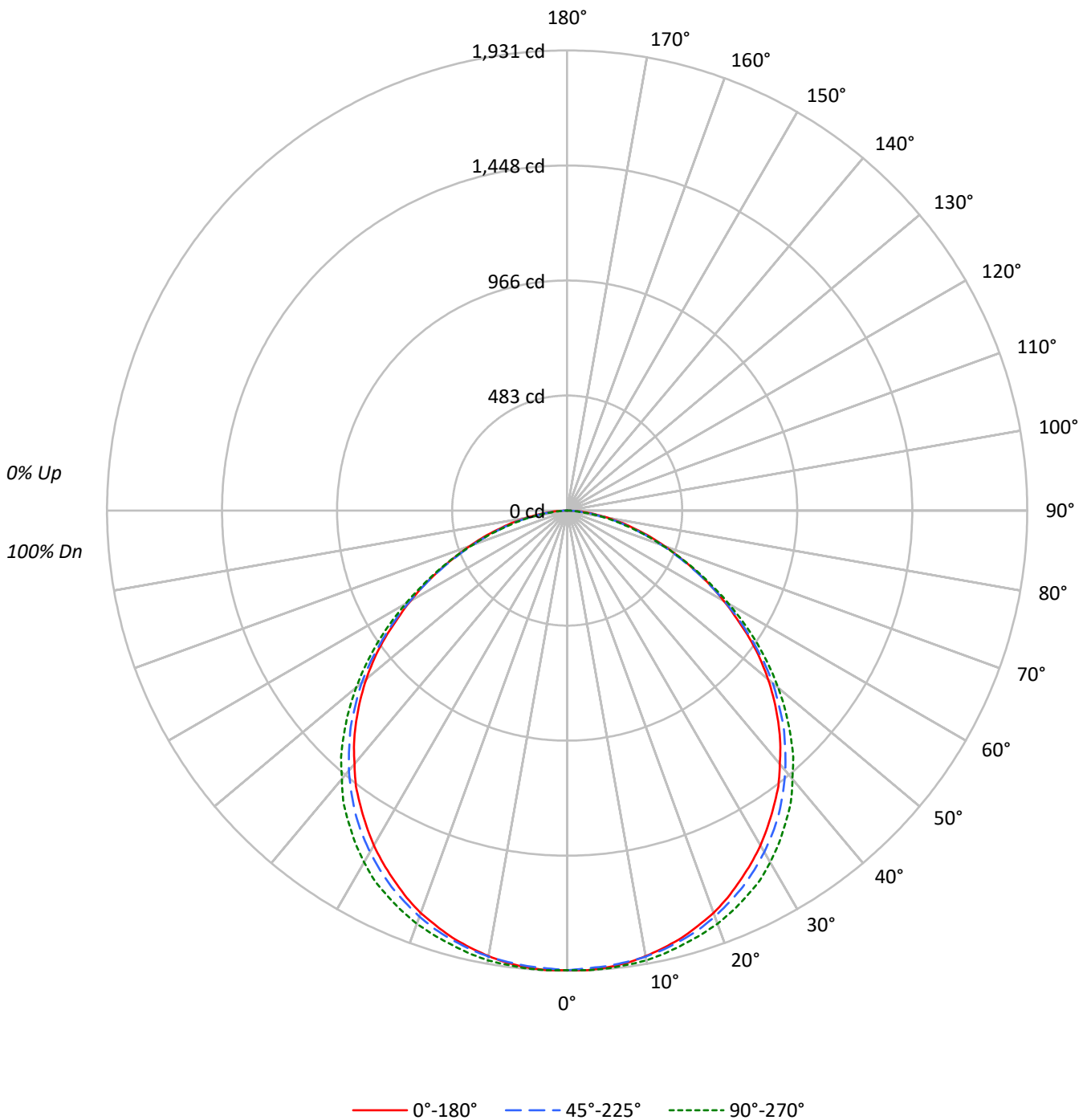
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2595	2595	2595
5°	2600	2591	2605
10°	2594	2597	2619
15°	2586	2597	2625
20°	2573	2595	2641
25°	2545	2587	2650
30°	2521	2571	2648
35°	2485	2547	2626
40°	2439	2502	2583
45°	2383	2444	2520
50°	2303	2358	2421
55°	2192	2220	2286
60°	2046	2057	2111
65°	1879	1866	1911
70°	1708	1661	1669
75°	1519	1435	1425
80°	1318	1179	1148
85°	1081	834	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.5
10°-20°	527.3	10.0
20°-30°	804.9	15.3
30°-40°	970.4	18.4
40°-50°	989.6	18.8
50°-60°	846.9	16.1
60°-70°	583.4	11.1
70°-80°	299.1	5.7
80°-90°	69.6	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°	1515.1	28.7
0°-40°	2485.5	47.1
0°-60°	4322.0	81.9
0°-90°	5274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1925	1921	1919	1925	1929	183
15°	1857	1855	1865	1879	1885	524
25°	1715	1721	1743	1773	1785	791
35°	1513	1519	1551	1585	1599	946
45°	1252	1254	1284	1316	1324	965
55°	934	928	946	966	974	834
65°	590	576	586	590	600	587
75°	292	280	276	276	274	315
85°	70	62	54	48	42	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.7	1928.7	1928.7	1928.7	1928.7
2.5°	1930.7	1926.7	1922.7	1926.7	1930.7
5°	1924.7	1920.7	1918.7	1924.7	1928.7
7.5°	1914.7	1910.7	1910.7	1918.7	1922.7
10°	1898.7	1896.7	1900.7	1908.7	1916.7
12.5°	1878.7	1878.7	1884.7	1894.7	1902.7
15°	1856.7	1854.7	1864.7	1878.7	1884.7
17.5°	1826.7	1828.7	1842.7	1858.7	1866.7
20°	1796.7	1798.7	1812.7	1834.7	1844.7
22.5°	1758.7	1762.7	1778.7	1806.7	1816.7
25°	1714.6	1720.6	1742.7	1772.7	1784.7
27.5°	1670.6	1676.6	1700.6	1734.6	1750.7
30°	1622.6	1630.6	1654.6	1690.6	1704.6
32.5°	1568.6	1574.6	1604.6	1640.6	1654.6
35°	1512.6	1518.6	1550.6	1584.6	1598.6
37.5°	1456.5	1456.5	1488.6	1528.6	1542.6
40°	1388.5	1390.5	1424.5	1462.5	1470.6
42.5°	1324.5	1324.5	1354.5	1390.5	1404.5
45°	1252.5	1254.5	1284.5	1316.5	1324.5
47.5°	1178.4	1178.4	1204.5	1234.5	1242.5
50°	1100.4	1096.4	1126.4	1150.4	1156.4
52.5°	1020.4	1014.4	1038.4	1058.4	1066.4
55°	934.3	928.3	946.4	966.4	974.4
57.5°	844.3	836.3	856.3	874.3	878.3
60°	760.3	748.3	764.3	774.3	784.3
62.5°	676.3	662.2	674.3	680.3	688.3
65°	590.2	576.2	586.2	590.2	600.2
67.5°	508.2	498.2	500.2	506.2	510.2
70°	434.2	422.2	422.2	422.2	424.2
72.5°	366.1	348.1	346.1	348.1	348.1
75°	292.1	280.1	276.1	276.1	274.1
77.5°	234.1	218.1	216.1	212.1	208.1
80°	170.1	156.1	152.1	150.1	148.1
82.5°	118.0	106.0	102.0	98.0	92.0
85°	70.0	62.0	54.0	48.0	42.0
87.5°	26.0	24.0	20.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)