

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: P296354

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296354  
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-LD5-67-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: 5270.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

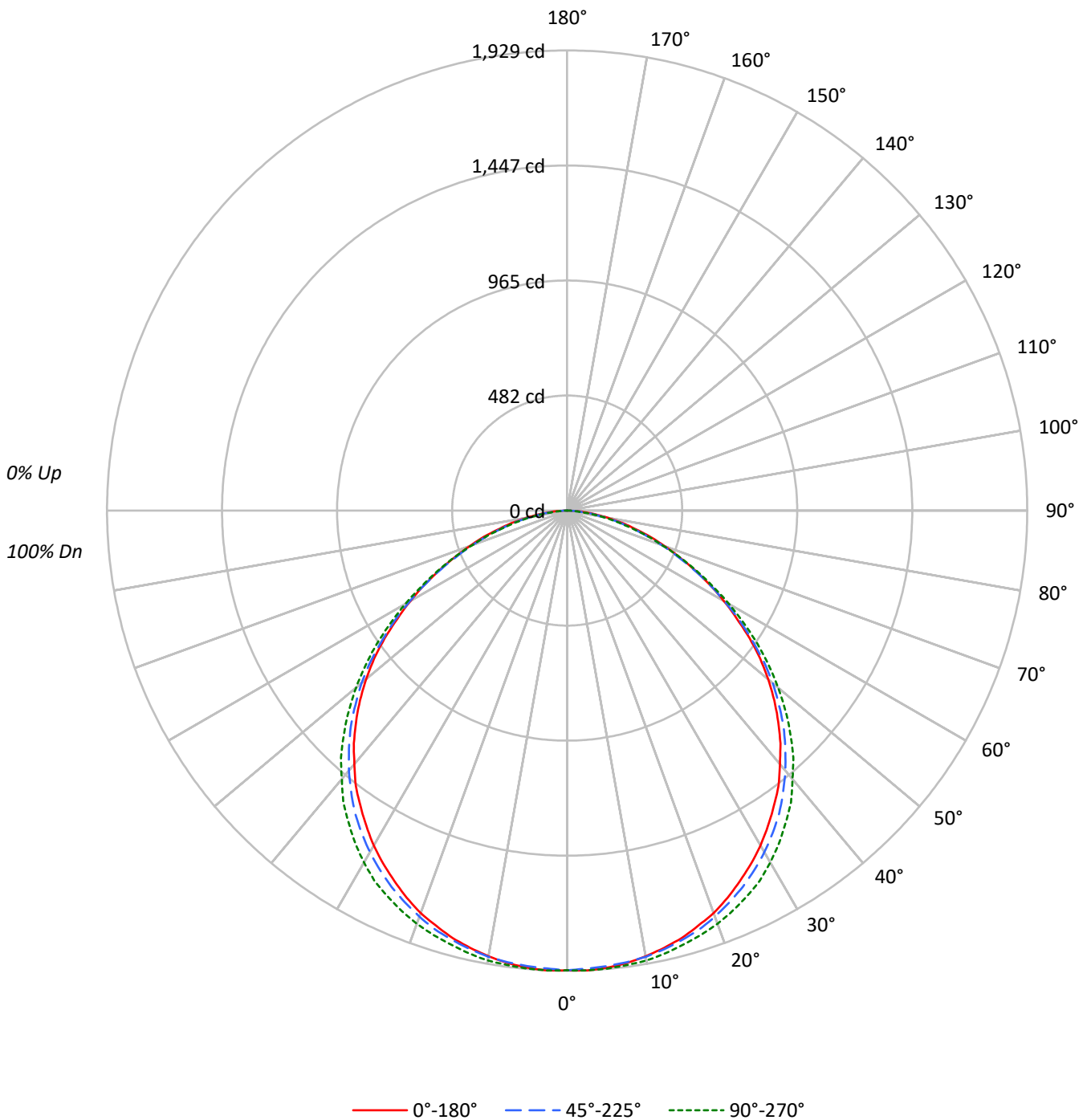
Input Watts (W): 50.871  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2593	2593	2593
5°	2598	2590	2603
10°	2592	2595	2617
15°	2584	2595	2623
20°	2571	2593	2639
25°	2544	2585	2647
30°	2519	2569	2646
35°	2483	2545	2624
40°	2437	2500	2581
45°	2381	2442	2518
50°	2302	2356	2419
55°	2190	2218	2284
60°	2044	2055	2109
65°	1878	1865	1910
70°	1707	1659	1667
75°	1517	1434	1424
80°	1316	1177	1146
85°	1081	834	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	3.5
10°-20°	526.9	10.0
20°-30°	804.3	15.3
30°-40°	969.6	18.4
40°-50°	988.8	18.8
50°-60°	846.2	16.1
60°-70°	582.9	11.1
70°-80°	298.8	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°	1514.0	28.7
0°-40°	2483.6	47.1
0°-60°	4318.7	81.9
0°-90°	5270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1923	1919	1917	1923	1927	183
15°	1855	1853	1863	1877	1883	523
25°	1713	1719	1741	1771	1783	790
35°	1511	1517	1549	1583	1597	946
45°	1252	1254	1284	1316	1324	964
55°	934	928	946	966	974	833
65°	590	576	586	590	600	586
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°	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1929.3	1925.3	1921.3	1925.3	1929.3
5°	1923.3	1919.3	1917.3	1923.3	1927.3
7.5°	1913.3	1909.3	1909.3	1917.3	1921.3
10°	1897.3	1895.3	1899.3	1907.3	1915.3
12.5°	1877.3	1877.3	1883.3	1893.3	1901.3
15°	1855.3	1853.3	1863.3	1877.3	1883.3
17.5°	1825.3	1827.3	1841.3	1857.3	1865.3
20°	1795.3	1797.3	1811.3	1833.3	1843.3
22.5°	1757.3	1761.3	1777.3	1805.3	1815.3
25°	1713.3	1719.3	1741.3	1771.3	1783.3
27.5°	1669.4	1675.4	1699.3	1733.3	1749.3
30°	1621.4	1629.4	1653.4	1689.4	1703.3
32.5°	1567.4	1573.4	1603.4	1639.4	1653.4
35°	1511.4	1517.4	1549.4	1583.4	1597.4
37.5°	1455.4	1455.4	1487.4	1527.4	1541.4
40°	1387.5	1389.5	1423.5	1461.4	1469.4
42.5°	1323.5	1323.5	1353.5	1389.5	1403.5
45°	1251.5	1253.5	1283.5	1315.5	1323.5
47.5°	1177.5	1177.5	1203.5	1233.5	1241.5
50°	1099.6	1095.6	1125.6	1149.6	1155.6
52.5°	1019.6	1013.6	1037.6	1057.6	1065.6
55°	933.6	927.6	945.6	965.6	973.6
57.5°	843.7	835.7	855.7	873.7	877.7
60°	759.7	747.7	763.7	773.7	783.7
62.5°	675.7	661.7	673.7	679.7	687.7
65°	589.8	575.8	585.8	589.8	599.8
67.5°	507.8	497.8	499.8	505.8	509.8
70°	433.8	421.8	421.8	421.8	423.8
72.5°	365.9	347.9	345.9	347.9	347.9
75°	291.9	279.9	275.9	275.9	273.9
77.5°	233.9	217.9	215.9	211.9	207.9
80°	169.9	155.9	151.9	149.9	147.9
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)