

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: P295917

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-60-UNV-L82765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5528.0 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

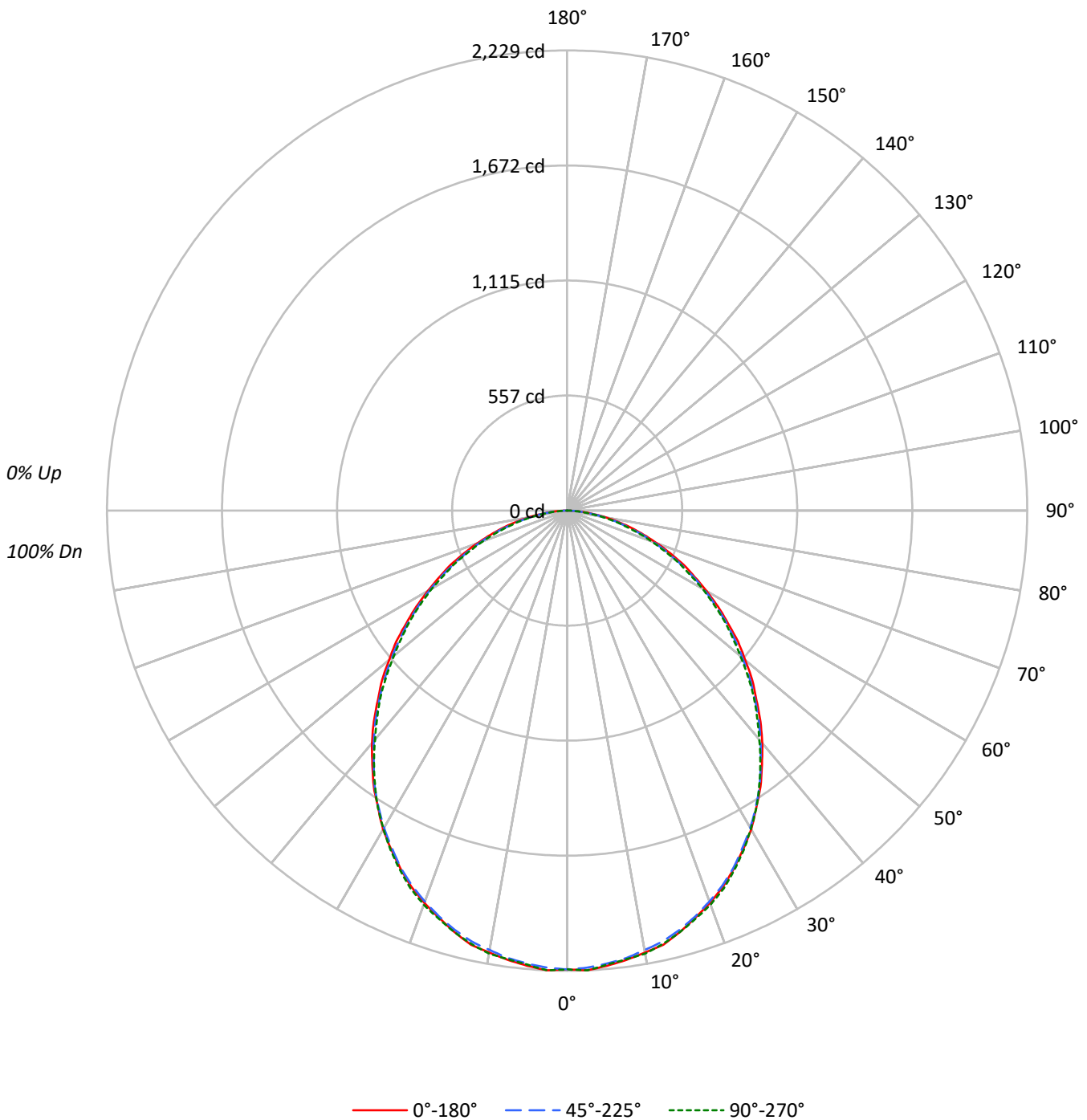
Input Watts (W): 43.245  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2990	2990	2990
5°	2989	2975	2982
10°	2970	2953	2977
15°	2944	2929	2944
20°	2896	2885	2908
25°	2838	2833	2849
30°	2771	2757	2765
35°	2683	2671	2666
40°	2584	2559	2543
45°	2467	2443	2433
50°	2355	2318	2292
55°	2230	2196	2175
60°	2097	2059	2035
65°	1982	1908	1891
70°	1817	1747	1712
75°	1669	1567	1502
80°	1464	1368	1285
85°	1184	1101	936



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.7	3.8
10°-20°	594.4	10.8
20°-30°	879.2	15.9
30°-40°	1014.7	18.4
40°-50°	991.0	17.9
50°-60°	836.9	15.1
60°-70°	596.1	10.8
70°-80°	322.8	5.8
80°-90°	83.3	1.5
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°	1683.3	30.4
0°-40°	2698.0	48.8
0°-60°	4525.9	81.9
0°-90°	5528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2213	2213	2202	2208	2208	210
15°	2113	2104	2103	2112	2113	595
25°	1912	1901	1908	1915	1919	880
35°	1634	1621	1626	1621	1623	1019
45°	1296	1286	1284	1279	1279	1003
55°	950	938	936	927	927	852
65°	622	610	599	592	594	614
75°	321	310	301	294	289	340
85°	77	75	71	62	61	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2222.1	2222.1	2222.1	2222.1	2222.1
2.5°	2229.2	2220.3	2216.7	2218.5	2229.2
5°	2213.2	2213.2	2202.5	2207.8	2207.8
7.5°	2195.3	2197.1	2186.4	2195.3	2191.8
10°	2173.9	2168.6	2161.5	2175.7	2179.3
12.5°	2154.3	2141.8	2138.3	2147.2	2149.0
15°	2113.3	2104.4	2102.6	2111.5	2113.3
17.5°	2066.9	2068.7	2061.6	2074.1	2072.3
20°	2022.4	2018.8	2015.2	2029.5	2031.3
22.5°	1972.4	1961.7	1965.3	1977.8	1981.3
25°	1911.8	1901.1	1908.2	1915.4	1918.9
27.5°	1847.6	1842.2	1840.5	1849.4	1852.9
30°	1783.4	1774.5	1774.5	1785.2	1779.8
32.5°	1704.9	1697.8	1701.4	1704.9	1706.7
35°	1633.6	1621.1	1626.4	1621.1	1622.9
37.5°	1549.8	1540.8	1539.1	1537.3	1537.3
40°	1471.3	1464.2	1457.0	1457.0	1448.1
42.5°	1385.7	1376.8	1373.2	1367.9	1362.5
45°	1296.5	1285.8	1284.0	1278.7	1278.7
47.5°	1216.3	1200.2	1198.4	1187.7	1187.7
50°	1125.3	1114.6	1107.5	1100.3	1095.0
52.5°	1043.3	1032.6	1021.9	1014.7	1009.4
55°	950.5	938.1	936.3	927.4	927.4
57.5°	866.7	856.0	848.9	838.2	840.0
60°	779.3	768.6	765.1	756.2	756.2
62.5°	697.3	688.4	683.0	674.1	667.0
65°	622.4	609.9	599.2	592.1	593.9
67.5°	540.4	526.1	520.7	513.6	508.3
70°	461.9	453.0	444.1	435.1	435.1
72.5°	388.8	379.9	374.5	363.8	360.2
75°	321.0	310.3	301.4	294.3	288.9
77.5°	253.2	242.5	237.2	228.3	228.3
80°	189.0	181.9	176.6	173.0	165.9
82.5°	130.2	126.6	121.3	115.9	110.6
85°	76.7	74.9	71.3	62.4	60.6
87.5°	30.3	30.3	26.8	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)