

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: P295985

Luminaire Tested: **24RLN-LD5-60-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295985
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-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5530.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

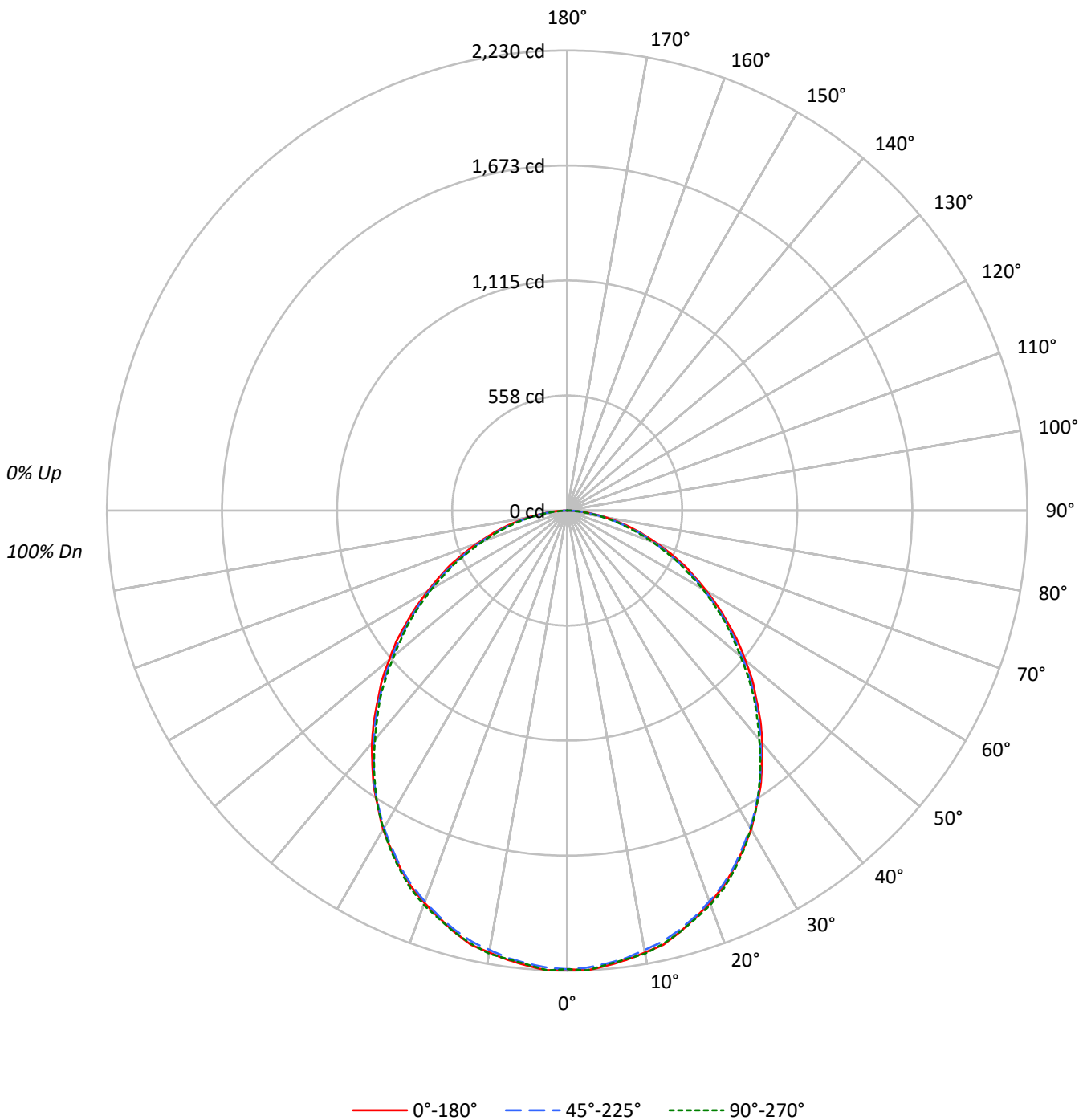
Input Watts (W): 44.361
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2991	2991	2991
5°	2990	2976	2983
10°	2971	2954	2979
15°	2945	2930	2945
20°	2897	2887	2909
25°	2839	2834	2850
30°	2772	2758	2766
35°	2684	2672	2667
40°	2585	2560	2544
45°	2468	2444	2434
50°	2356	2319	2293
55°	2231	2197	2176
60°	2098	2059	2035
65°	1982	1908	1891
70°	1818	1747	1712
75°	1669	1567	1502
80°	1465	1368	1285
85°	1184	1102	937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	3.8
10°-20°	594.6	10.8
20°-30°	879.5	15.9
30°-40°	1015.1	18.4
40°-50°	991.4	17.9
50°-60°	837.2	15.1
60°-70°	596.3	10.8
70°-80°	322.9	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°	1683.9	30.4
0°-40°	2698.9	48.8
0°-60°	4527.5	81.9
0°-90°	5530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2223	2223	2223	2223	2223	
5°	2214	2214	2203	2209	2209	210
15°	2114	2105	2103	2112	2114	595
25°	1912	1902	1909	1916	1920	880
35°	1634	1622	1627	1622	1624	1020
45°	1297	1286	1284	1279	1279	1003
55°	951	938	937	928	928	853
65°	623	610	599	592	594	614
75°	321	310	302	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°	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2230.0	2221.1	2217.6	2219.3	2230.0
5°	2214.0	2214.0	2203.3	2208.6	2208.6
7.5°	2196.1	2197.9	2187.2	2196.1	2192.6
10°	2174.7	2169.4	2162.2	2176.5	2180.1
12.5°	2155.1	2142.6	2139.1	2148.0	2149.8
15°	2114.1	2105.2	2103.4	2112.3	2114.1
17.5°	2067.7	2069.5	2062.3	2074.8	2073.0
20°	2023.1	2019.5	2016.0	2030.2	2032.0
22.5°	1973.1	1962.4	1966.0	1978.5	1982.1
25°	1912.5	1901.8	1908.9	1916.0	1919.6
27.5°	1848.3	1842.9	1841.1	1850.0	1853.6
30°	1784.0	1775.1	1775.1	1785.8	1780.5
32.5°	1705.5	1698.4	1702.0	1705.5	1707.3
35°	1634.2	1621.7	1627.0	1621.7	1623.5
37.5°	1550.3	1541.4	1539.6	1537.8	1537.8
40°	1471.8	1464.7	1457.6	1457.6	1448.6
42.5°	1386.2	1377.3	1373.7	1368.4	1363.0
45°	1297.0	1286.3	1284.5	1279.2	1279.2
47.5°	1216.7	1200.7	1198.9	1188.2	1188.2
50°	1125.7	1115.0	1107.9	1100.7	1095.4
52.5°	1043.7	1033.0	1022.2	1015.1	1009.8
55°	950.9	938.4	936.6	927.7	927.7
57.5°	867.0	856.3	849.2	838.5	840.3
60°	779.6	768.9	765.3	756.4	756.4
62.5°	697.6	688.6	683.3	674.4	667.2
65°	622.6	610.1	599.4	592.3	594.1
67.5°	540.6	526.3	520.9	513.8	508.4
70°	462.1	453.1	444.2	435.3	435.3
72.5°	388.9	380.0	374.6	363.9	360.4
75°	321.1	310.4	301.5	294.4	289.0
77.5°	253.3	242.6	237.3	228.4	228.4
80°	189.1	182.0	176.6	173.1	165.9
82.5°	130.2	126.7	121.3	116.0	110.6
85°	76.7	74.9	71.4	62.4	60.7
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)