

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: P296060

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296060
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-L92765-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: 5320.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

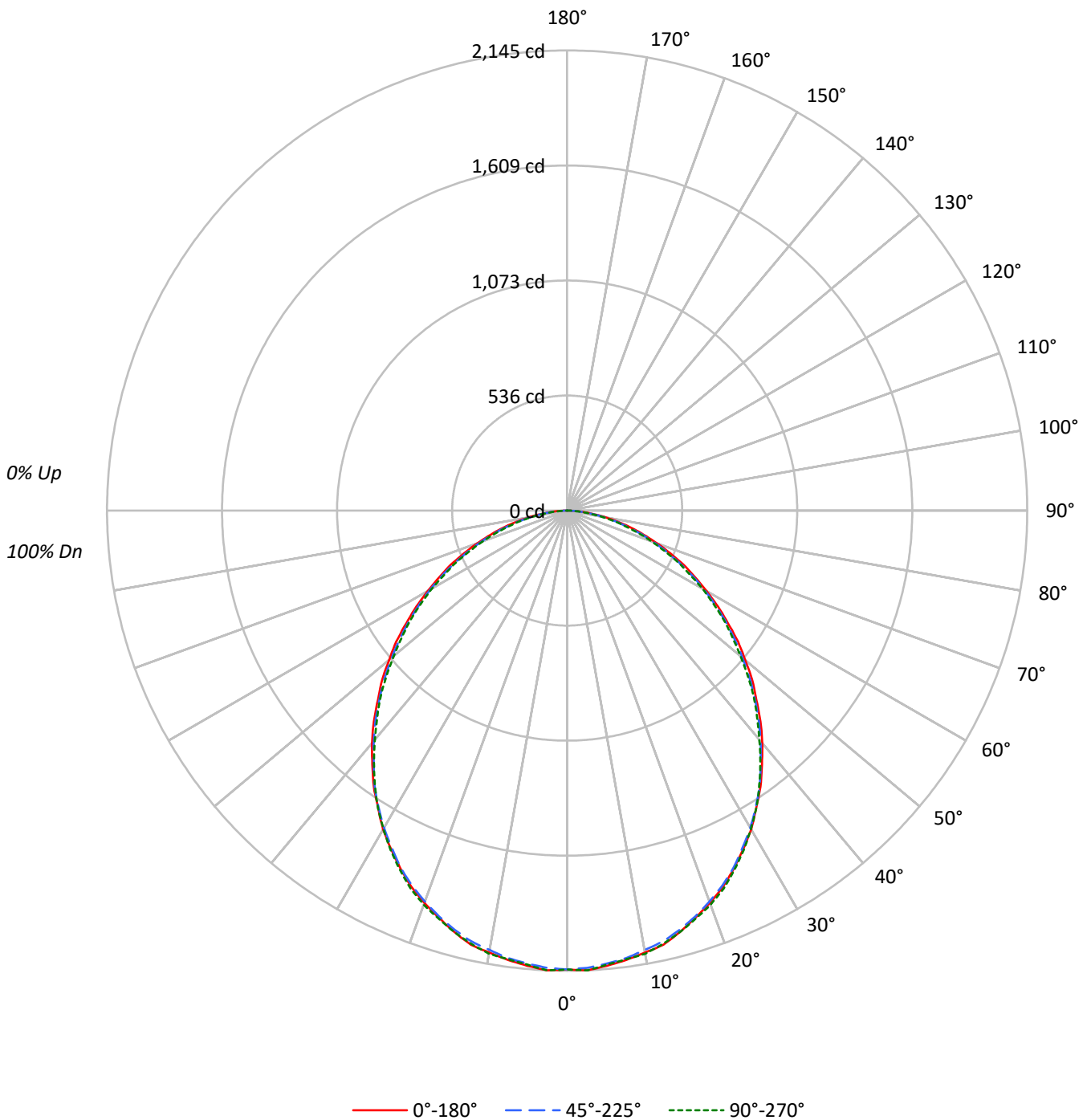
Input Watts (W): 43.71
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2877	2877	2877
5°	2877	2863	2870
10°	2858	2842	2865
15°	2833	2819	2833
20°	2787	2777	2799
25°	2731	2726	2742
30°	2667	2653	2661
35°	2582	2571	2565
40°	2487	2463	2448
45°	2374	2351	2342
50°	2267	2231	2206
55°	2146	2114	2094
60°	2018	1981	1958
65°	1907	1836	1819
70°	1749	1681	1648
75°	1606	1508	1445
80°	1409	1316	1237
85°	1139	1061	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	3.8
10°-20°	572.0	10.8
20°-30°	846.1	15.9
30°-40°	976.5	18.4
40°-50°	953.8	17.9
50°-60°	805.4	15.1
60°-70°	573.7	10.8
70°-80°	310.6	5.8
80°-90°	80.2	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°	1619.9	30.4
0°-40°	2596.4	48.8
0°-60°	4355.6	81.9
0°-90°	5320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2138	2138	2138	2138	2138	
5°	2130	2130	2120	2125	2125	202
15°	2034	2025	2024	2032	2034	573
25°	1840	1830	1836	1843	1847	847
35°	1572	1560	1565	1560	1562	981
45°	1248	1237	1236	1231	1231	965
55°	915	903	901	892	892	820
65°	599	587	577	570	572	591
75°	309	299	290	283	278	327
85°	74	72	69	60	58	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2145.4	2136.8	2133.3	2135.1	2145.4
5°	2129.9	2129.9	2119.6	2124.8	2124.8
7.5°	2112.7	2114.5	2104.2	2112.7	2109.3
10°	2092.1	2087.0	2080.1	2093.9	2097.3
12.5°	2073.3	2061.3	2057.8	2066.4	2068.1
15°	2033.8	2025.2	2023.5	2032.1	2033.8
17.5°	1989.2	1990.9	1984.0	1996.0	1994.3
20°	1946.3	1942.8	1939.4	1953.1	1954.8
22.5°	1898.2	1887.9	1891.3	1903.4	1906.8
25°	1839.9	1829.6	1836.4	1843.3	1846.7
27.5°	1778.1	1772.9	1771.2	1779.8	1783.2
30°	1716.3	1707.7	1707.7	1718.0	1712.9
32.5°	1640.8	1633.9	1637.3	1640.8	1642.5
35°	1572.1	1560.1	1565.3	1560.1	1561.8
37.5°	1491.4	1482.9	1481.2	1479.4	1479.4
40°	1415.9	1409.1	1402.2	1402.2	1393.6
42.5°	1333.6	1325.0	1321.5	1316.4	1311.2
45°	1247.7	1237.4	1235.7	1230.6	1230.6
47.5°	1170.5	1155.1	1153.3	1143.0	1143.0
50°	1083.0	1072.7	1065.8	1058.9	1053.8
52.5°	1004.0	993.7	983.4	976.6	971.4
55°	914.8	902.8	901.0	892.5	892.5
57.5°	834.1	823.8	817.0	806.7	808.4
60°	750.0	739.7	736.3	727.7	727.7
62.5°	671.1	662.5	657.3	648.8	641.9
65°	599.0	587.0	576.7	569.8	571.5
67.5°	520.0	506.3	501.2	494.3	489.1
70°	444.5	435.9	427.4	418.8	418.8
72.5°	374.1	365.6	360.4	350.1	346.7
75°	308.9	298.6	290.1	283.2	278.0
77.5°	243.7	233.4	228.3	219.7	219.7
80°	181.9	175.1	169.9	166.5	159.6
82.5°	125.3	121.9	116.7	111.6	106.4
85°	73.8	72.1	68.7	60.1	58.4
87.5°	29.2	29.2	25.7	24.0	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)