

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: P295984

Luminaire Tested: **24RLN-LD5-60-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295984
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5120.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

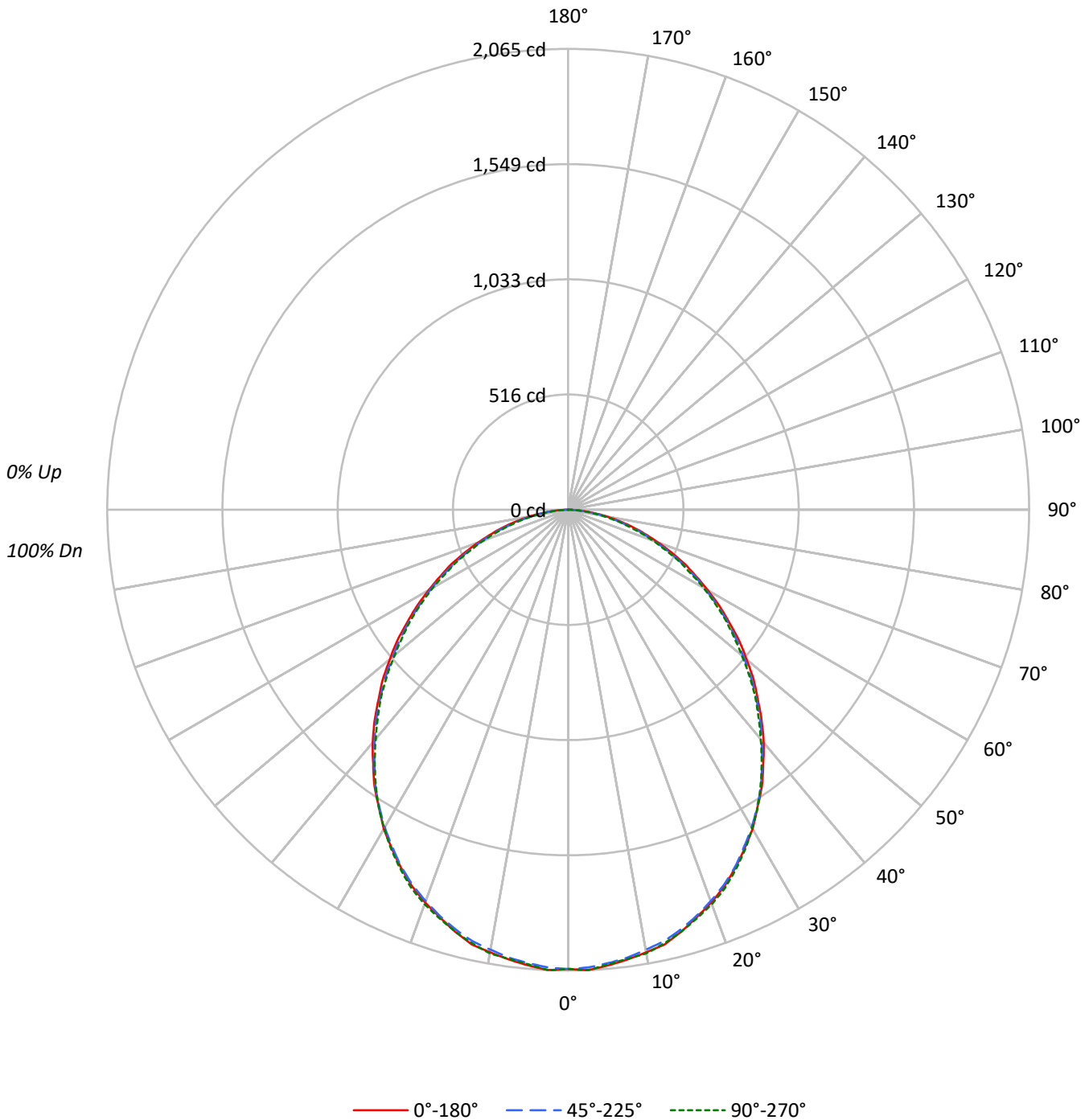
Input Watts (W): 44.082
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2769	2769	2769
5°	2769	2755	2762
10°	2751	2735	2758
15°	2726	2713	2726
20°	2682	2673	2694
25°	2629	2624	2639
30°	2566	2553	2561
35°	2485	2474	2469
40°	2393	2370	2356
45°	2285	2263	2253
50°	2182	2147	2123
55°	2065	2034	2015
60°	1942	1907	1884
65°	1835	1767	1751
70°	1683	1618	1585
75°	1546	1451	1391
80°	1357	1267	1190
85°	1096	1020	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	3.8
10°-20°	550.5	10.8
20°-30°	814.3	15.9
30°-40°	939.8	18.4
40°-50°	917.9	17.9
50°-60°	775.1	15.1
60°-70°	552.1	10.8
70°-80°	298.9	5.8
80°-90°	77.1	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°	1559.0	30.4
0°-40°	2498.8	48.8
0°-60°	4191.8	81.9
0°-90°	5120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2050	2050	2040	2045	2045	195
15°	1957	1949	1947	1956	1957	551
25°	1771	1761	1767	1774	1777	815
35°	1513	1502	1506	1502	1503	944
45°	1201	1191	1189	1184	1184	929
55°	880	869	867	859	859	789
65°	576	565	555	548	550	568
75°	297	287	279	272	268	315
85°	71	69	66	58	56	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.1	2058.1	2058.1	2058.1	2058.1
2.5°	2064.7	2056.4	2053.1	2054.8	2064.7
5°	2049.8	2049.8	2039.9	2044.9	2044.9
7.5°	2033.3	2035.0	2025.1	2033.3	2030.0
10°	2013.5	2008.5	2001.9	2015.1	2018.5
12.5°	1995.3	1983.8	1980.5	1988.7	1990.4
15°	1957.3	1949.1	1947.4	1955.7	1957.3
17.5°	1914.4	1916.0	1909.4	1921.0	1919.3
20°	1873.1	1869.8	1866.5	1879.7	1881.4
22.5°	1826.8	1816.9	1820.2	1831.8	1835.1
25°	1770.7	1760.8	1767.4	1774.0	1777.3
27.5°	1711.2	1706.3	1704.6	1712.9	1716.2
30°	1651.8	1643.5	1643.5	1653.4	1648.5
32.5°	1579.1	1572.5	1575.8	1579.1	1580.7
35°	1513.0	1501.5	1506.4	1501.5	1503.1
37.5°	1435.4	1427.1	1425.5	1423.8	1423.8
40°	1362.7	1356.1	1349.5	1349.5	1341.2
42.5°	1283.4	1275.2	1271.9	1266.9	1261.9
45°	1200.8	1190.9	1189.3	1184.3	1184.3
47.5°	1126.5	1111.6	1110.0	1100.1	1100.1
50°	1042.3	1032.4	1025.7	1019.1	1014.2
52.5°	966.3	956.4	946.5	939.9	934.9
55°	880.4	868.8	867.2	858.9	858.9
57.5°	802.8	792.8	786.2	776.3	778.0
60°	721.8	711.9	708.6	700.3	700.3
62.5°	645.8	637.6	632.6	624.4	617.8
65°	576.5	564.9	555.0	548.4	550.0
67.5°	500.5	487.3	482.3	475.7	470.8
70°	427.8	419.5	411.3	403.0	403.0
72.5°	360.1	351.8	346.9	337.0	333.7
75°	297.3	287.4	279.1	272.5	267.6
77.5°	234.6	224.6	219.7	211.4	211.4
80°	175.1	168.5	163.5	160.2	153.6
82.5°	120.6	117.3	112.3	107.4	102.4
85°	71.0	69.4	66.1	57.8	56.2
87.5°	28.1	28.1	24.8	23.1	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)