

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: P295975

Luminaire Tested: **24RLN-LD5-50-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295975
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-LD5-50-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: 4582.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

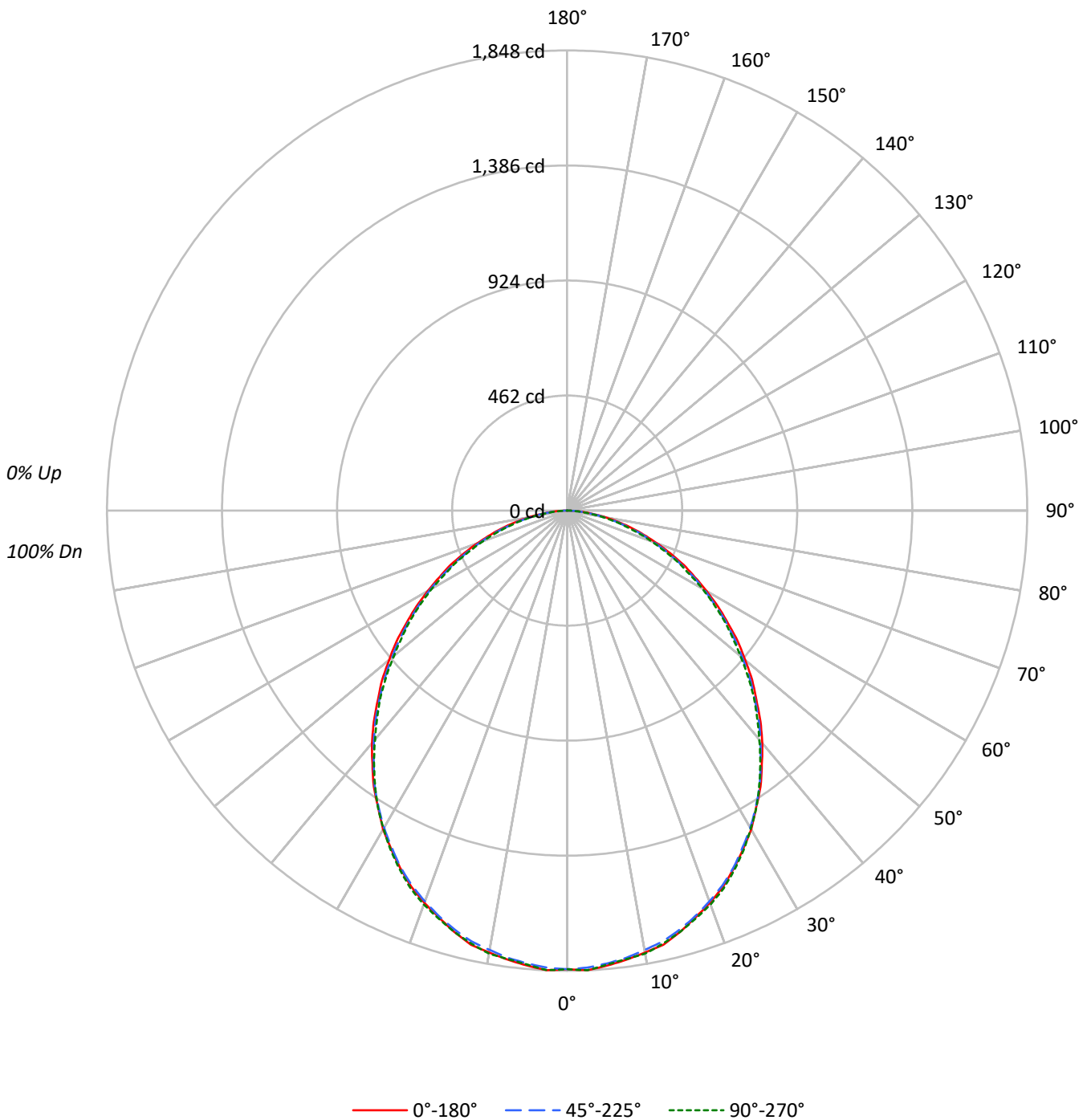
Input Watts (W): 35.898
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2478	2478	2478
5°	2478	2466	2472
10°	2462	2448	2468
15°	2440	2428	2440
20°	2400	2392	2411
25°	2352	2348	2361
30°	2297	2285	2292
35°	2224	2214	2210
40°	2142	2121	2108
45°	2045	2025	2017
50°	1952	1922	1900
55°	1848	1821	1803
60°	1738	1706	1687
65°	1642	1581	1567
70°	1506	1448	1419
75°	1383	1299	1245
80°	1214	1134	1065
85°	982	912	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	3.8
10°-20°	492.7	10.8
20°-30°	728.8	15.9
30°-40°	841.1	18.4
40°-50°	821.5	17.9
50°-60°	693.7	15.1
60°-70°	494.1	10.8
70°-80°	267.5	5.8
80°-90°	69.0	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°	1395.2	30.4
0°-40°	2236.3	48.8
0°-60°	3751.4	81.9
0°-90°	4582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1834	1834	1826	1830	1830	174
15°	1752	1744	1743	1750	1752	493
25°	1585	1576	1582	1588	1590	730
35°	1354	1344	1348	1344	1345	845
45°	1075	1066	1064	1060	1060	831
55°	788	778	776	769	769	706
65°	516	506	497	491	492	509
75°	266	257	250	244	240	282
85°	64	62	59	52	50	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.8	1841.8	1841.8	1841.8	1841.8
2.5°	1847.7	1840.4	1837.4	1838.9	1847.7
5°	1834.4	1834.4	1825.6	1830.0	1830.0
7.5°	1819.7	1821.1	1812.3	1819.7	1816.7
10°	1801.9	1797.5	1791.6	1803.4	1806.4
12.5°	1785.7	1775.3	1772.4	1779.7	1781.2
15°	1751.7	1744.3	1742.8	1750.2	1751.7
17.5°	1713.2	1714.7	1708.8	1719.1	1717.7
20°	1676.3	1673.3	1670.4	1682.2	1683.7
22.5°	1634.9	1626.0	1629.0	1639.3	1642.3
25°	1584.6	1575.8	1581.7	1587.6	1590.5
27.5°	1531.4	1527.0	1525.5	1532.9	1535.8
30°	1478.2	1470.8	1470.8	1479.7	1475.2
32.5°	1413.2	1407.2	1410.2	1413.2	1414.6
35°	1354.0	1343.7	1348.1	1343.7	1345.2
37.5°	1284.6	1277.2	1275.7	1274.2	1274.2
40°	1219.5	1213.6	1207.7	1207.7	1200.3
42.5°	1148.6	1141.2	1138.2	1133.8	1129.3
45°	1074.6	1065.8	1064.3	1059.9	1059.9
47.5°	1008.1	994.8	993.3	984.5	984.5
50°	932.7	923.9	918.0	912.0	907.6
52.5°	864.7	855.9	847.0	841.1	836.7
55°	787.9	777.5	776.1	768.7	768.7
57.5°	718.4	709.5	703.6	694.8	696.2
60°	646.0	637.1	634.1	626.8	626.8
62.5°	578.0	570.6	566.1	558.8	552.8
65°	515.9	505.5	496.7	490.8	492.2
67.5°	447.9	436.1	431.6	425.7	421.3
70°	382.9	375.5	368.1	360.7	360.7
72.5°	322.2	314.9	310.4	301.6	298.6
75°	266.1	257.2	249.8	243.9	239.5
77.5°	209.9	201.0	196.6	189.2	189.2
80°	156.7	150.8	146.3	143.4	137.5
82.5°	107.9	105.0	100.5	96.1	91.6
85°	63.6	62.1	59.1	51.7	50.3
87.5°	25.1	25.1	22.2	20.7	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)