

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: P295833

Luminaire Tested: **24RLN-LD5-50-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295833
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-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.0 lumens
Efficiency: N/A
Efficacy: 135.2 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

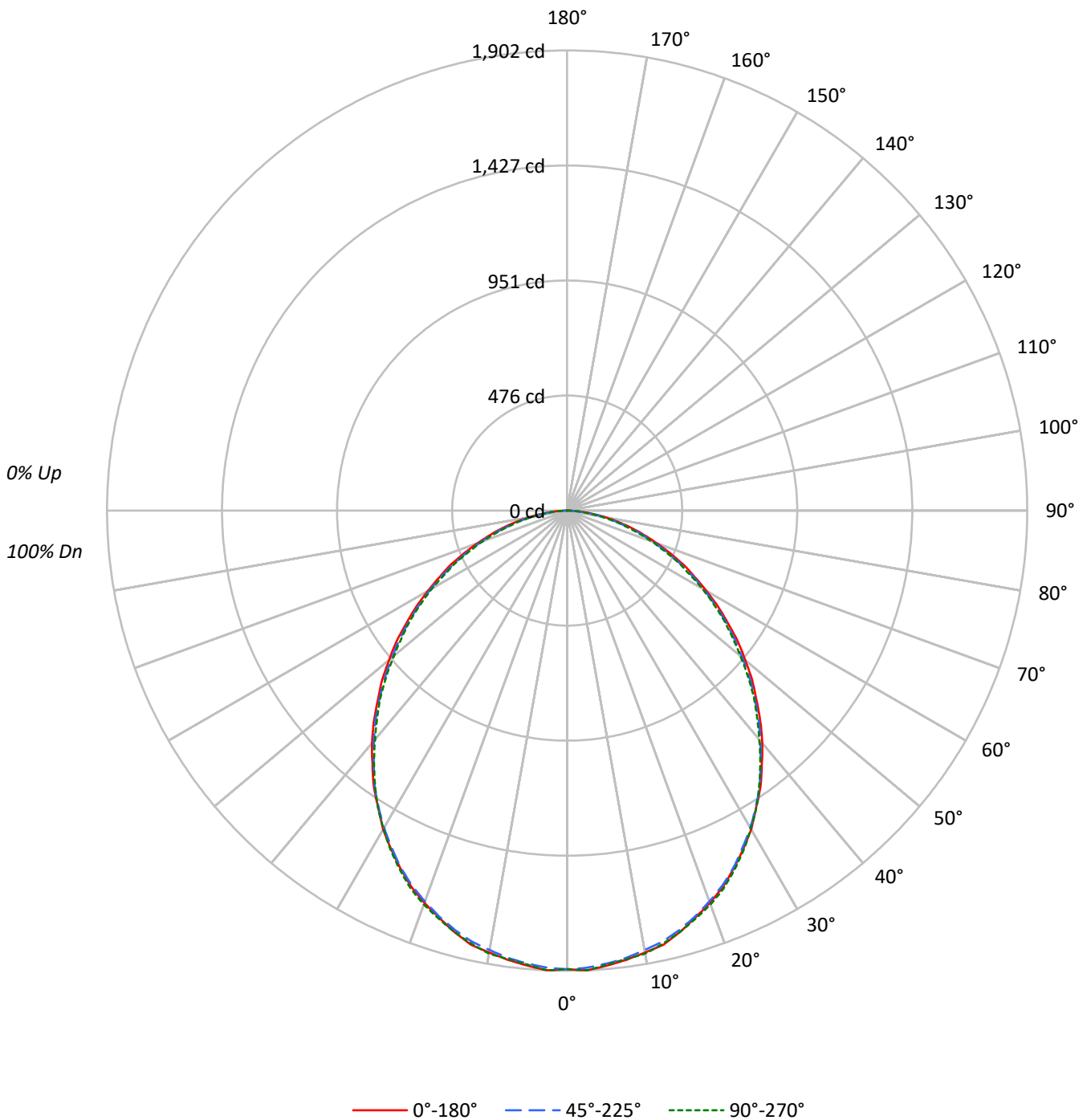
Input Watts (W): 34.875
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2551	2551	2551
5°	2550	2538	2544
10°	2534	2519	2540
15°	2511	2499	2511
20°	2470	2462	2481
25°	2421	2417	2430
30°	2364	2352	2359
35°	2289	2279	2274
40°	2205	2183	2170
45°	2105	2084	2076
50°	2009	1978	1955
55°	1902	1874	1856
60°	1789	1756	1736
65°	1691	1628	1613
70°	1550	1490	1460
75°	1424	1337	1281
80°	1250	1167	1096
85°	1010	940	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	3.8
10°-20°	507.1	10.8
20°-30°	750.1	15.9
30°-40°	865.7	18.4
40°-50°	845.5	17.9
50°-60°	713.9	15.1
60°-70°	508.5	10.8
70°-80°	275.3	5.8
80°-90°	71.0	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°	1436.0	30.4
0°-40°	2301.7	48.8
0°-60°	3861.1	81.9
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1888	1888	1879	1884	1884	179
15°	1803	1795	1794	1801	1803	508
25°	1631	1622	1628	1634	1637	751
35°	1394	1383	1388	1383	1384	870
45°	1106	1097	1095	1091	1091	855
55°	811	800	799	791	791	727
65°	531	520	511	505	507	523
75°	274	265	257	251	246	290
85°	65	64	61	53	52	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1901.8	1894.2	1891.1	1892.7	1901.8
5°	1888.1	1888.1	1879.0	1883.5	1883.5
7.5°	1872.9	1874.4	1865.3	1872.9	1869.8
10°	1854.6	1850.1	1844.0	1856.1	1859.2
12.5°	1837.9	1827.2	1824.2	1831.8	1833.3
15°	1802.9	1795.3	1793.8	1801.4	1802.9
17.5°	1763.3	1764.9	1758.8	1769.4	1767.9
20°	1725.3	1722.3	1719.2	1731.4	1732.9
22.5°	1682.7	1673.6	1676.6	1687.3	1690.3
25°	1631.0	1621.8	1627.9	1634.0	1637.1
27.5°	1576.2	1571.6	1570.1	1577.7	1580.8
30°	1521.4	1513.8	1513.8	1522.9	1518.4
32.5°	1454.5	1448.4	1451.4	1454.5	1456.0
35°	1393.6	1383.0	1387.5	1383.0	1384.5
37.5°	1322.1	1314.5	1313.0	1311.5	1311.5
40°	1255.2	1249.1	1243.0	1243.0	1235.4
42.5°	1182.1	1174.5	1171.5	1166.9	1162.4
45°	1106.1	1096.9	1095.4	1090.9	1090.9
47.5°	1037.6	1023.9	1022.4	1013.3	1013.3
50°	960.0	950.9	944.8	938.7	934.2
52.5°	890.0	880.9	871.8	865.7	861.1
55°	810.9	800.3	798.7	791.1	791.1
57.5°	739.4	730.3	724.2	715.1	716.6
60°	664.9	655.7	652.7	645.1	645.1
62.5°	594.9	587.3	582.7	575.1	569.0
65°	531.0	520.3	511.2	505.1	506.6
67.5°	461.0	448.8	444.3	438.2	433.6
70°	394.0	386.4	378.8	371.2	371.2
72.5°	331.7	324.1	319.5	310.4	307.3
75°	273.9	264.7	257.1	251.0	246.5
77.5°	216.0	206.9	202.3	194.7	194.7
80°	161.3	155.2	150.6	147.6	141.5
82.5°	111.1	108.0	103.5	98.9	94.3
85°	65.4	63.9	60.9	53.2	51.7
87.5°	25.9	25.9	22.8	21.3	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)