

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: P296186

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

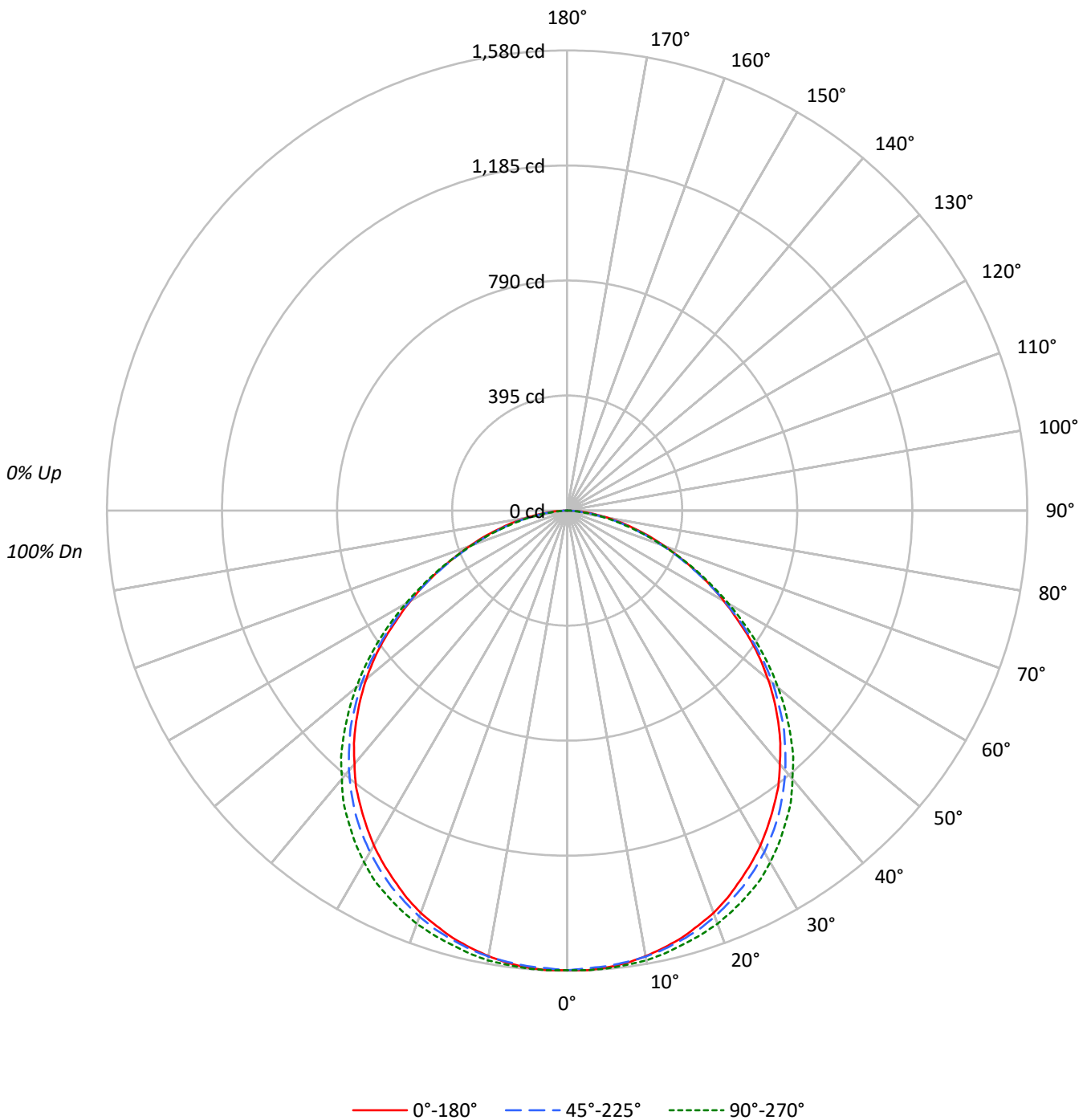
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2127	2120	2131
10°	2122	2125	2143
15°	2116	2125	2148
20°	2105	2124	2161
25°	2083	2117	2168
30°	2063	2103	2167
35°	2033	2084	2148
40°	1995	2047	2113
45°	1950	2000	2062
50°	1885	1929	1981
55°	1793	1816	1870
60°	1674	1683	1727
65°	1537	1527	1564
70°	1397	1359	1365
75°	1242	1174	1166
80°	1078	964	938
85°	885	682	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.5
10°-20°	431.4	10.0
20°-30°	658.6	15.3
30°-40°	793.9	18.4
40°-50°	809.6	18.8
50°-60°	692.9	16.1
60°-70°	477.3	11.1
70°-80°	244.7	5.7
80°-90°	57.0	1.3
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°	1239.6	28.7
0°-40°	2033.6	47.1
0°-60°	3536.1	81.9
0°-90°	4315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1575	1572	1570	1575	1578	150
15°	1519	1517	1526	1537	1542	428
25°	1403	1408	1426	1450	1460	647
35°	1238	1242	1269	1296	1308	774
45°	1025	1026	1051	1077	1084	790
55°	764	760	774	791	797	682
65°	483	471	480	483	491	480
75°	239	229	226	226	224	258
85°	57	51	44	39	34	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1579.6	1576.4	1573.1	1576.4	1579.6
5°	1574.7	1571.5	1569.8	1574.7	1578.0
7.5°	1566.6	1563.3	1563.3	1569.8	1573.1
10°	1553.5	1551.8	1555.1	1561.6	1568.2
12.5°	1537.1	1537.1	1542.0	1550.2	1556.7
15°	1519.1	1517.4	1525.6	1537.1	1542.0
17.5°	1494.5	1496.2	1507.6	1520.7	1527.3
20°	1470.0	1471.6	1483.1	1501.1	1509.3
22.5°	1438.9	1442.1	1455.2	1478.2	1486.3
25°	1402.9	1407.8	1425.8	1450.3	1460.2
27.5°	1366.8	1371.8	1391.4	1419.2	1432.3
30°	1327.6	1334.1	1353.8	1383.2	1394.7
32.5°	1283.4	1288.3	1312.8	1342.3	1353.8
35°	1237.5	1242.4	1268.6	1296.5	1307.9
37.5°	1191.7	1191.7	1217.9	1250.6	1262.1
40°	1136.0	1137.7	1165.5	1196.6	1203.2
42.5°	1083.7	1083.7	1108.2	1137.7	1149.1
45°	1024.7	1026.4	1050.9	1077.1	1083.7
47.5°	964.2	964.2	985.4	1010.0	1016.5
50°	900.3	897.0	921.6	941.2	946.2
52.5°	834.8	829.9	849.6	865.9	872.5
55°	764.5	759.5	774.3	790.6	797.2
57.5°	690.8	684.2	700.6	715.3	718.6
60°	622.0	612.2	625.3	633.5	641.7
62.5°	553.3	541.8	551.6	556.6	563.1
65°	482.9	471.4	479.6	482.9	491.1
67.5°	415.8	407.6	409.2	414.1	417.4
70°	355.2	345.4	345.4	345.4	347.0
72.5°	299.6	284.8	283.2	284.8	284.8
75°	239.0	229.2	225.9	225.9	224.3
77.5°	191.5	178.4	176.8	173.5	170.2
80°	139.1	127.7	124.4	122.8	121.1
82.5°	96.6	86.8	83.5	80.2	75.3
85°	57.3	50.7	44.2	39.3	34.4
87.5°	21.3	19.6	16.4	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)