

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: P296184

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296184
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

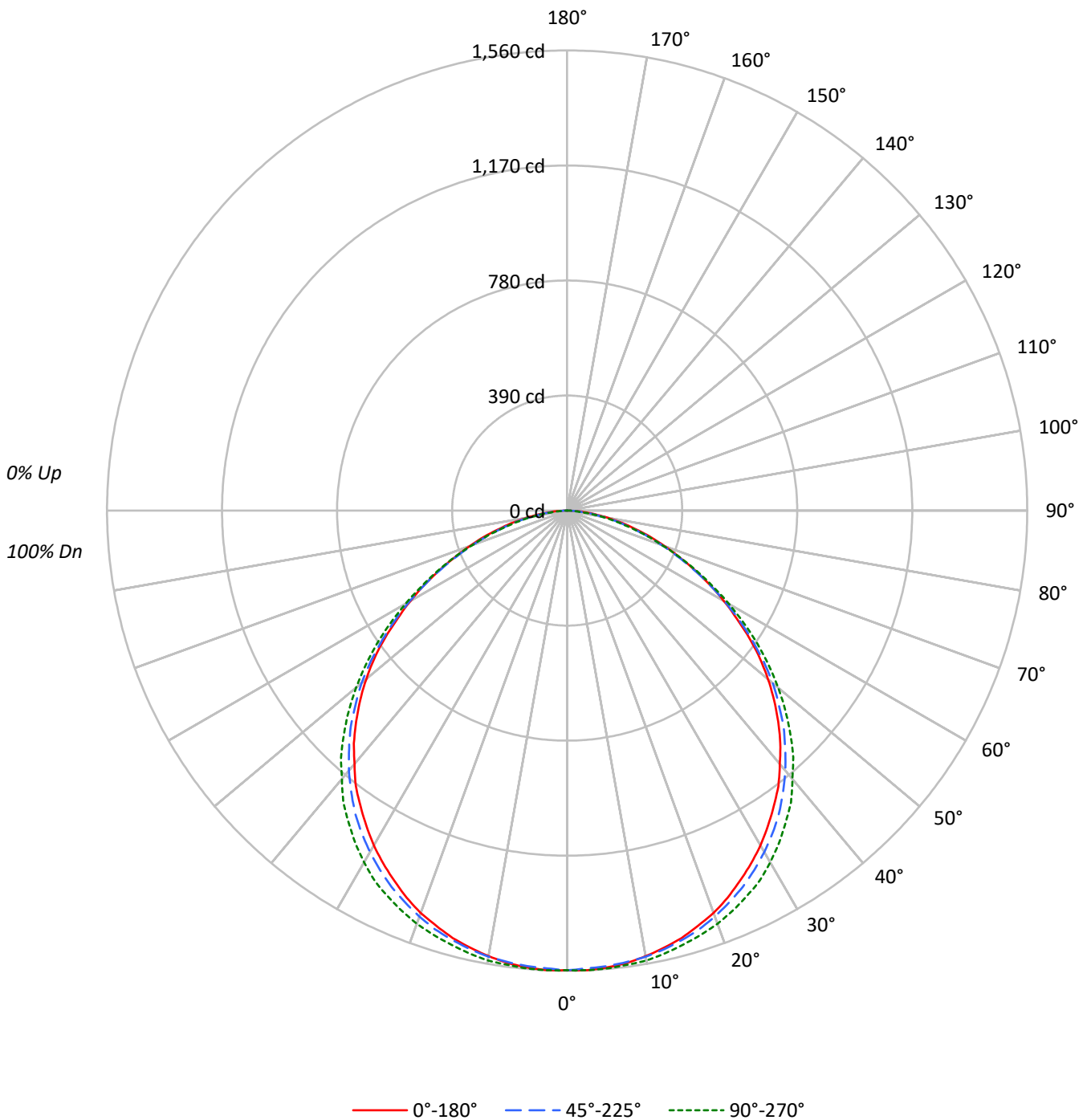
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2097	2097	2097
5°	2100	2094	2105
10°	2096	2098	2116
15°	2090	2098	2121
20°	2078	2097	2134
25°	2057	2090	2141
30°	2037	2077	2140
35°	2007	2058	2121
40°	1970	2021	2087
45°	1925	1975	2036
50°	1861	1905	1956
55°	1771	1794	1847
60°	1653	1662	1705
65°	1518	1508	1544
70°	1380	1342	1348
75°	1227	1160	1151
80°	1065	952	927
85°	874	673	523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	3.5
10°-20°	426.0	10.0
20°-30°	650.3	15.3
30°-40°	784.0	18.4
40°-50°	799.5	18.8
50°-60°	684.2	16.1
60°-70°	471.3	11.1
70°-80°	241.6	5.7
80°-90°	56.2	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°	1224.1	28.7
0°-40°	2008.1	47.1
0°-60°	3491.8	81.9
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1555	1552	1550	1555	1558	148
15°	1500	1498	1506	1518	1523	423
25°	1385	1390	1408	1432	1442	639
35°	1222	1227	1253	1280	1292	765
45°	1012	1014	1038	1064	1070	780
55°	755	750	765	781	787	673
65°	477	466	474	477	485	474
75°	236	226	223	223	222	254
85°	57	50	44	39	34	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.3	1558.3	1558.3	1558.3	1558.3
2.5°	1559.9	1556.6	1553.4	1556.6	1559.9
5°	1555.0	1551.8	1550.2	1555.0	1558.3
7.5°	1546.9	1543.7	1543.7	1550.2	1553.4
10°	1534.0	1532.4	1535.6	1542.1	1548.6
12.5°	1517.9	1517.9	1522.7	1530.8	1537.2
15°	1500.1	1498.5	1506.5	1517.9	1522.7
17.5°	1475.8	1477.4	1488.8	1501.7	1508.2
20°	1451.6	1453.2	1464.5	1482.3	1490.4
22.5°	1420.9	1424.1	1437.0	1459.7	1467.7
25°	1385.3	1390.2	1407.9	1432.2	1441.9
27.5°	1349.7	1354.6	1374.0	1401.5	1414.4
30°	1310.9	1317.4	1336.8	1365.9	1377.2
32.5°	1267.3	1272.2	1296.4	1325.5	1336.8
35°	1222.0	1226.9	1252.8	1280.2	1291.5
37.5°	1176.8	1176.8	1202.6	1235.0	1246.3
40°	1121.8	1123.4	1150.9	1181.6	1188.1
42.5°	1070.1	1070.1	1094.3	1123.4	1134.8
45°	1011.9	1013.5	1037.8	1063.6	1070.1
47.5°	952.1	952.1	973.1	997.4	1003.8
50°	889.1	885.8	910.1	929.5	934.3
52.5°	824.4	819.5	838.9	855.1	861.6
55°	754.9	750.0	764.6	780.7	787.2
57.5°	682.1	675.7	691.8	706.4	709.6
60°	614.3	604.6	617.5	625.6	633.7
62.5°	546.4	535.0	544.7	549.6	556.1
65°	476.9	465.5	473.6	476.9	484.9
67.5°	410.6	402.5	404.1	409.0	412.2
70°	350.8	341.1	341.1	341.1	342.7
72.5°	295.8	281.3	279.6	281.3	281.3
75°	236.0	226.3	223.1	223.1	221.5
77.5°	189.1	176.2	174.6	171.3	168.1
80°	137.4	126.1	122.9	121.2	119.6
82.5°	95.4	85.7	82.4	79.2	74.4
85°	56.6	50.1	43.6	38.8	33.9
87.5°	21.0	19.4	16.2	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)