

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: P296341

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296341
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-LD5-60-RDP-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4526.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

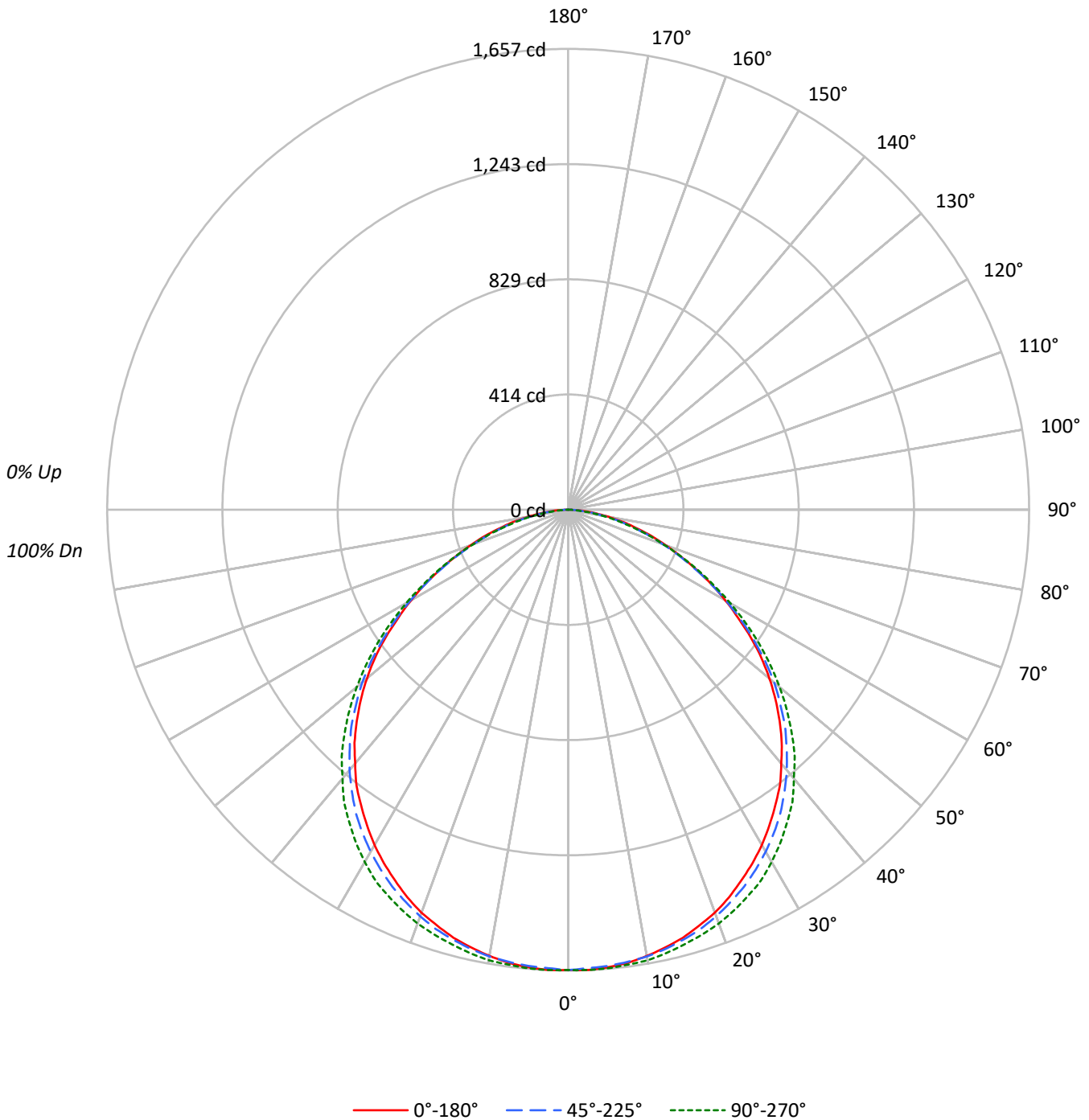
Input Watts (W): 44.082
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2227	2227	2227
5°	2231	2224	2236
10°	2226	2228	2247
15°	2220	2229	2253
20°	2208	2227	2267
25°	2185	2220	2274
30°	2163	2206	2273
35°	2132	2186	2253
40°	2093	2147	2217
45°	2045	2097	2163
50°	1977	2024	2077
55°	1881	1905	1962
60°	1756	1765	1811
65°	1613	1602	1640
70°	1466	1425	1432
75°	1303	1232	1223
80°	1130	1011	985
85°	928	716	557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.5
10°-20°	452.5	10.0
20°-30°	690.8	15.3
30°-40°	832.8	18.4
40°-50°	849.2	18.8
50°-60°	726.8	16.1
60°-70°	500.6	11.1
70°-80°	256.6	5.7
80°-90°	59.7	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°	1300.3	28.7
0°-40°	2133.0	47.1
0°-60°	3709.0	81.9
0°-90°	4526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1652	1648	1647	1652	1655	157
15°	1593	1592	1600	1612	1617	449
25°	1472	1477	1496	1521	1532	679
35°	1298	1303	1331	1360	1372	812
45°	1075	1077	1102	1130	1137	828
55°	802	797	812	829	836	715
65°	506	494	503	506	515	503
75°	251	240	237	237	235	270
85°	60	53	46	41	36	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	1656.9	1653.5	1650.0	1653.5	1656.9
5°	1651.7	1648.3	1646.6	1651.7	1655.2
7.5°	1643.2	1639.7	1639.7	1646.6	1650.0
10°	1629.4	1627.7	1631.1	1638.0	1644.9
12.5°	1612.3	1612.3	1617.4	1626.0	1632.9
15°	1593.4	1591.6	1600.2	1612.3	1617.4
17.5°	1567.6	1569.3	1581.3	1595.1	1601.9
20°	1541.9	1543.6	1555.6	1574.5	1583.1
22.5°	1509.2	1512.7	1526.4	1550.4	1559.0
25°	1471.5	1476.6	1495.5	1521.3	1531.6
27.5°	1433.7	1438.8	1459.4	1488.6	1502.4
30°	1392.5	1399.3	1419.9	1450.9	1462.9
32.5°	1346.1	1351.3	1377.0	1407.9	1419.9
35°	1298.0	1303.2	1330.7	1359.9	1371.9
37.5°	1250.0	1250.0	1277.4	1311.8	1323.8
40°	1191.6	1193.3	1222.5	1255.1	1262.0
42.5°	1136.6	1136.6	1162.4	1193.3	1205.3
45°	1074.8	1076.6	1102.3	1129.8	1136.6
47.5°	1011.3	1011.3	1033.6	1059.4	1066.2
50°	944.3	940.9	966.7	987.3	992.4
52.5°	875.7	870.5	891.1	908.3	915.2
55°	801.8	796.7	812.1	829.3	836.2
57.5°	724.6	717.7	734.9	750.3	753.8
60°	652.5	642.2	655.9	664.5	673.1
62.5°	580.3	568.3	578.6	583.8	590.6
65°	506.5	494.5	503.1	506.5	515.1
67.5°	436.1	427.5	429.2	434.4	437.8
70°	372.6	362.3	362.3	362.3	364.0
72.5°	314.2	298.8	297.0	298.8	298.8
75°	250.7	240.4	236.9	236.9	235.2
77.5°	200.9	187.2	185.4	182.0	178.6
80°	145.9	133.9	130.5	128.8	127.1
82.5°	101.3	91.0	87.6	84.1	79.0
85°	60.1	53.2	46.4	41.2	36.1
87.5°	22.3	20.6	17.2	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)