

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: P296347

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296347
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-LD5-67-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4525.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

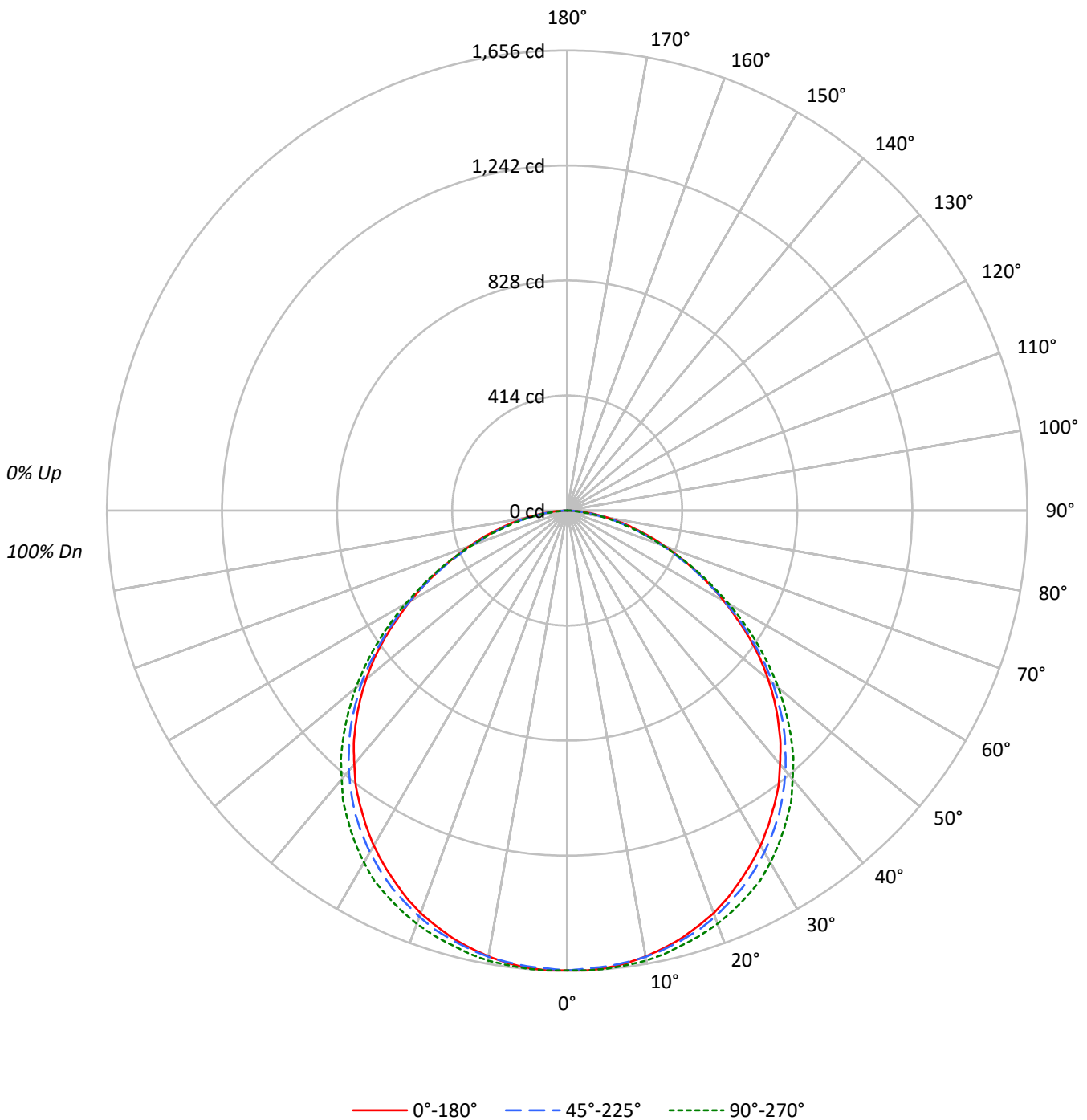
Input Watts (W): 48.174
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296347

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296347

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-3000K

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2227	2227	2227
5°	2230	2223	2235
10°	2226	2228	2247
15°	2219	2229	2252
20°	2207	2227	2266
25°	2184	2220	2273
30°	2163	2206	2272
35°	2132	2185	2253
40°	2092	2147	2216
45°	2045	2097	2162
50°	1976	2023	2077
55°	1881	1905	1961
60°	1755	1764	1811
65°	1612	1601	1640
70°	1465	1425	1432
75°	1303	1232	1223
80°	1130	1011	984
85°	928	715	556



TEST NUMBER: P296347

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.5
10°-20°	452.4	10.0
20°-30°	690.6	15.3
30°-40°	832.6	18.4
40°-50°	849.0	18.8
50°-60°	726.6	16.1
60°-70°	500.5	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°	1300.0	28.7
0°-40°	2132.5	47.1
0°-60°	3708.2	81.9
0°-90°	4525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1651	1648	1646	1651	1655	157
15°	1593	1591	1600	1612	1617	449
25°	1471	1476	1495	1521	1531	678
35°	1298	1303	1330	1360	1372	812
45°	1075	1076	1102	1130	1136	828
55°	802	796	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	



TEST NUMBER: P296347

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1656.5	1653.1	1649.7	1653.1	1656.5
5°	1651.4	1647.9	1646.2	1651.4	1654.8
7.5°	1642.8	1639.4	1639.4	1646.2	1649.7
10°	1629.1	1627.3	1630.8	1637.6	1644.5
12.5°	1611.9	1611.9	1617.0	1625.6	1632.5
15°	1593.0	1591.3	1599.9	1611.9	1617.0
17.5°	1567.3	1569.0	1581.0	1594.7	1601.6
20°	1541.5	1543.2	1555.2	1574.1	1582.7
22.5°	1508.9	1512.3	1526.1	1550.1	1558.7
25°	1471.1	1476.3	1495.2	1520.9	1531.2
27.5°	1433.4	1438.5	1459.1	1488.3	1502.0
30°	1392.2	1399.0	1419.6	1450.5	1462.5
32.5°	1345.8	1351.0	1376.7	1407.6	1419.6
35°	1297.8	1302.9	1330.4	1359.6	1371.6
37.5°	1249.7	1249.7	1277.2	1311.5	1323.5
40°	1191.3	1193.0	1222.2	1254.8	1261.7
42.5°	1136.4	1136.4	1162.1	1193.0	1205.1
45°	1074.6	1076.3	1102.1	1129.5	1136.4
47.5°	1011.1	1011.1	1033.4	1059.1	1066.0
50°	944.1	940.7	966.5	987.0	992.2
52.5°	875.5	870.3	890.9	908.1	915.0
55°	801.7	796.5	812.0	829.1	836.0
57.5°	724.4	717.5	734.7	750.2	753.6
60°	652.3	642.0	655.7	664.3	672.9
62.5°	580.2	568.2	578.5	583.6	590.5
65°	506.4	494.4	503.0	506.4	515.0
67.5°	436.0	427.4	429.2	434.3	437.7
70°	372.5	362.2	362.2	362.2	363.9
72.5°	314.1	298.7	297.0	298.7	298.7
75°	250.6	240.3	236.9	236.9	235.2
77.5°	200.8	187.1	185.4	182.0	178.5
80°	145.9	133.9	130.5	128.7	127.0
82.5°	101.3	91.0	87.5	84.1	79.0
85°	60.1	53.2	46.3	41.2	36.0
87.5°	22.3	20.6	17.2	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)