

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: P296346

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296346
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4352.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

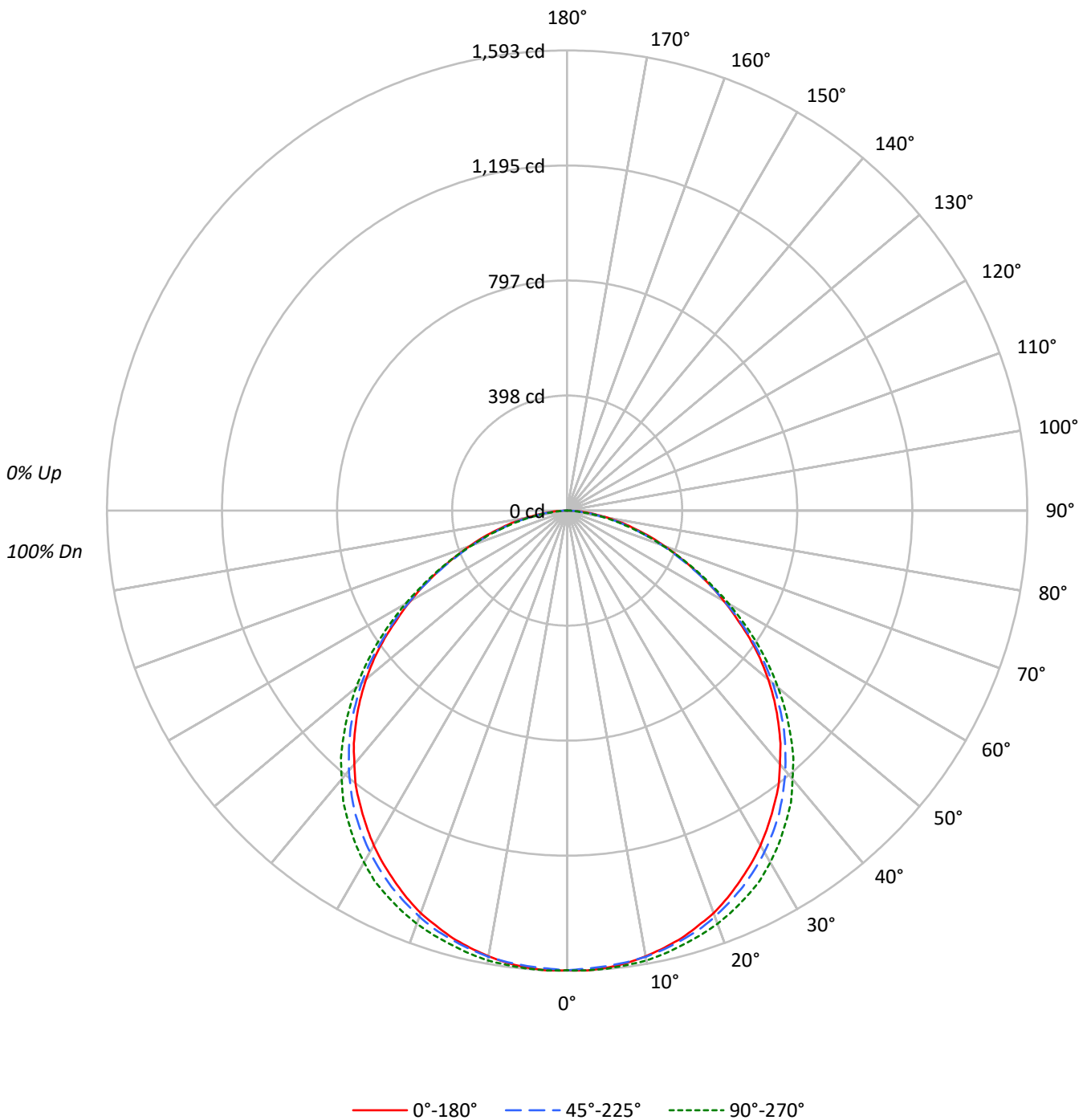
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2141	2141	2141
5°	2145	2138	2150
10°	2141	2143	2161
15°	2134	2143	2166
20°	2123	2142	2180
25°	2101	2135	2186
30°	2080	2121	2185
35°	2050	2102	2167
40°	2012	2065	2131
45°	1967	2017	2080
50°	1901	1946	1998
55°	1809	1832	1886
60°	1688	1697	1742
65°	1550	1540	1577
70°	1410	1371	1377
75°	1253	1184	1176
80°	1087	972	947
85°	892	689	536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.5
10°-20°	435.1	10.0
20°-30°	664.2	15.3
30°-40°	800.7	18.4
40°-50°	816.6	18.8
50°-60°	698.8	16.1
60°-70°	481.4	11.1
70°-80°	246.8	5.7
80°-90°	57.4	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°	1250.3	28.7
0°-40°	2051.0	47.1
0°-60°	3566.4	81.9
0°-90°	4352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1588	1585	1583	1588	1592	151
15°	1532	1530	1539	1550	1555	432
25°	1415	1420	1438	1463	1473	652
35°	1248	1253	1280	1308	1319	781
45°	1034	1035	1060	1086	1093	796
55°	771	766	781	797	804	688
65°	487	476	484	487	495	484
75°	241	231	228	228	226	260
85°	58	51	45	40	35	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1591.5	1591.5	1591.5	1591.5	1591.5
2.5°	1593.2	1589.9	1586.6	1589.9	1593.2
5°	1588.2	1584.9	1583.3	1588.2	1591.5
7.5°	1580.0	1576.7	1576.7	1583.3	1586.6
10°	1566.8	1565.1	1568.4	1575.0	1581.6
12.5°	1550.3	1550.3	1555.2	1563.5	1570.1
15°	1532.1	1530.5	1538.7	1550.3	1555.2
17.5°	1507.3	1509.0	1520.6	1533.8	1540.4
20°	1482.6	1484.2	1495.8	1513.9	1522.2
22.5°	1451.2	1454.5	1467.7	1490.8	1499.1
25°	1414.9	1419.8	1438.0	1462.8	1472.7
27.5°	1378.6	1383.5	1403.3	1431.4	1444.6
30°	1338.9	1345.5	1365.4	1395.1	1406.6
32.5°	1294.4	1299.3	1324.1	1353.8	1365.4
35°	1248.1	1253.1	1279.5	1307.6	1319.1
37.5°	1201.9	1201.9	1228.3	1261.3	1272.9
40°	1145.8	1147.4	1175.5	1206.9	1213.5
42.5°	1092.9	1092.9	1117.7	1147.4	1159.0
45°	1033.5	1035.2	1059.9	1086.3	1092.9
47.5°	972.4	972.4	993.9	1018.7	1025.3
50°	908.0	904.7	929.5	949.3	954.3
52.5°	842.0	837.0	856.9	873.4	880.0
55°	771.0	766.1	780.9	797.4	804.0
57.5°	696.7	690.1	706.6	721.5	724.8
60°	627.4	617.5	630.7	638.9	647.2
62.5°	558.0	546.5	556.4	561.3	567.9
65°	487.0	475.5	483.7	487.0	495.3
67.5°	419.3	411.1	412.7	417.7	421.0
70°	358.3	348.4	348.4	348.4	350.0
72.5°	302.1	287.3	285.6	287.3	287.3
75°	241.0	231.1	227.8	227.8	226.2
77.5°	193.2	180.0	178.3	175.0	171.7
80°	140.3	128.8	125.5	123.8	122.2
82.5°	97.4	87.5	84.2	80.9	75.9
85°	57.8	51.2	44.6	39.6	34.7
87.5°	21.5	19.8	16.5	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)