

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: P296349

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296349
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

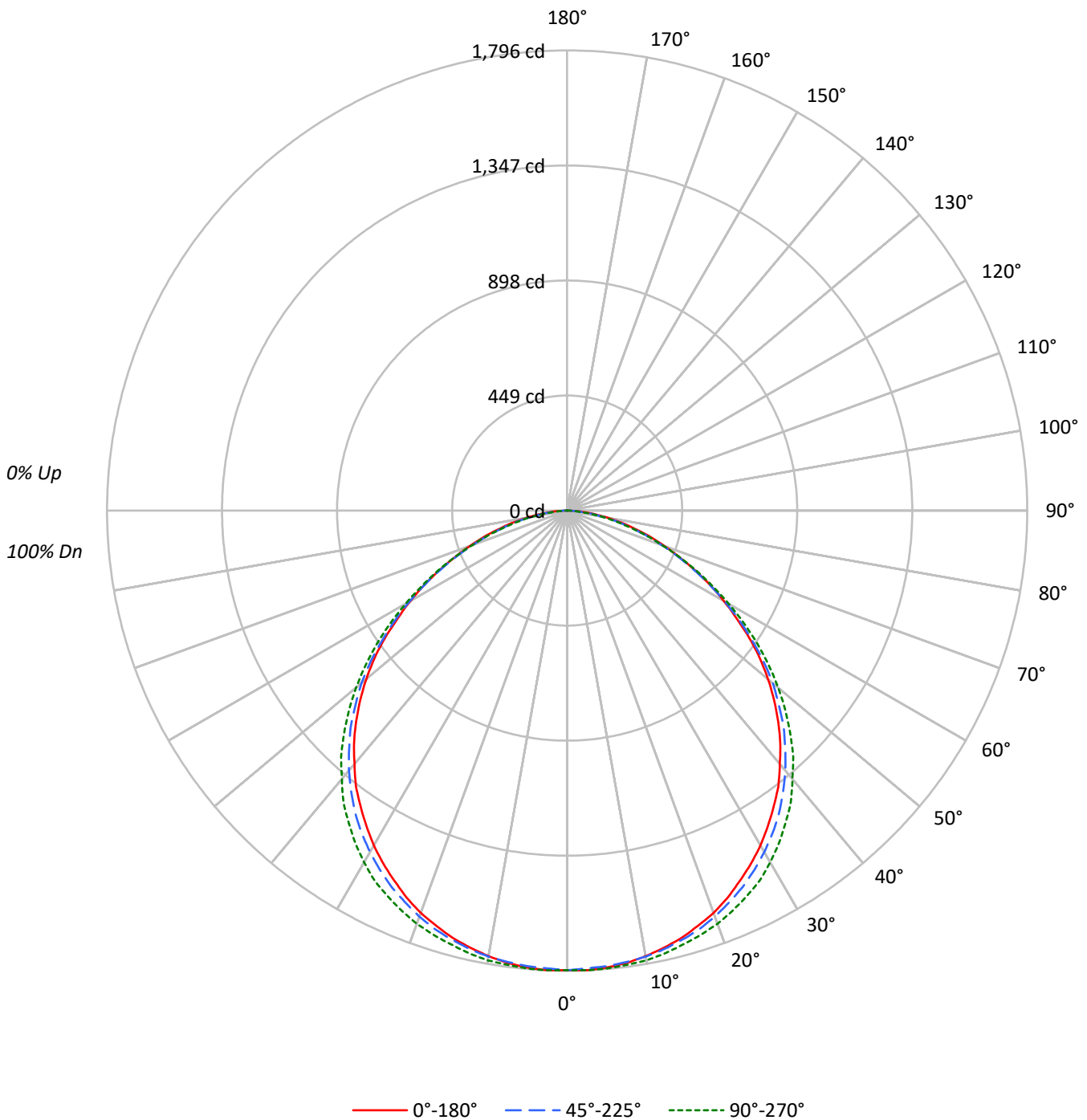
Input Watts (W): 49.197
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2414	2414	2414
5°	2418	2410	2423
10°	2413	2415	2435
15°	2405	2416	2442
20°	2393	2414	2456
25°	2367	2406	2464
30°	2345	2391	2463
35°	2311	2369	2442
40°	2268	2327	2402
45°	2216	2273	2344
50°	2142	2193	2251
55°	2038	2065	2126
60°	1903	1913	1963
65°	1748	1736	1777
70°	1589	1544	1552
75°	1412	1335	1325
80°	1226	1096	1067
85°	1005	775	604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	3.5
10°-20°	490.4	10.0
20°-30°	748.6	15.3
30°-40°	902.5	18.4
40°-50°	920.3	18.8
50°-60°	787.6	16.1
60°-70°	542.5	11.1
70°-80°	278.1	5.7
80°-90°	64.7	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°	1409.1	28.7
0°-40°	2311.6	47.1
0°-60°	4019.6	81.9
0°-90°	4905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1794	1794	1794	1794	1794	
5°	1790	1786	1784	1790	1794	170
15°	1727	1725	1734	1747	1753	487
25°	1595	1600	1621	1649	1660	735
35°	1407	1412	1442	1474	1487	880
45°	1165	1167	1195	1224	1232	897
55°	869	863	880	899	906	775
65°	549	536	545	549	558	545
75°	272	260	257	257	255	293
85°	65	58	50	45	39	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1793.8	1793.8	1793.8	1793.8	1793.8
2.5°	1795.6	1791.9	1788.2	1791.9	1795.6
5°	1790.1	1786.3	1784.5	1790.1	1793.8
7.5°	1780.8	1777.0	1777.0	1784.5	1788.2
10°	1765.9	1764.0	1767.7	1775.2	1782.6
12.5°	1747.3	1747.3	1752.8	1762.1	1769.6
15°	1726.8	1724.9	1734.2	1747.3	1752.8
17.5°	1698.9	1700.7	1713.8	1728.7	1736.1
20°	1671.0	1672.8	1685.9	1706.3	1715.6
22.5°	1635.6	1639.3	1654.2	1680.3	1689.6
25°	1594.7	1600.3	1620.7	1648.6	1659.8
27.5°	1553.7	1559.3	1581.6	1613.3	1628.2
30°	1509.1	1516.5	1538.9	1572.3	1585.4
32.5°	1458.8	1464.4	1492.3	1525.8	1538.9
35°	1406.7	1412.3	1442.1	1473.7	1486.8
37.5°	1354.6	1354.6	1384.4	1421.6	1434.6
40°	1291.4	1293.2	1324.9	1360.2	1367.7
42.5°	1231.8	1231.8	1259.7	1293.2	1306.3
45°	1164.8	1166.7	1194.6	1224.4	1231.8
47.5°	1096.0	1096.0	1120.2	1148.1	1155.5
50°	1023.4	1019.7	1047.6	1069.9	1075.5
52.5°	949.0	943.4	965.7	984.3	991.8
55°	869.0	863.4	880.1	898.7	906.2
57.5°	785.2	777.8	796.4	813.2	816.9
60°	707.1	695.9	710.8	720.1	729.4
62.5°	628.9	615.9	627.1	632.7	640.1
65°	548.9	535.9	545.2	548.9	558.2
67.5°	472.6	463.3	465.2	470.8	474.5
70°	403.8	392.6	392.6	392.6	394.5
72.5°	340.5	323.8	321.9	323.8	323.8
75°	271.7	260.5	256.8	256.8	254.9
77.5°	217.7	202.8	201.0	197.2	193.5
80°	158.2	145.1	141.4	139.6	137.7
82.5°	109.8	98.6	94.9	91.2	85.6
85°	65.1	57.7	50.2	44.7	39.1
87.5°	24.2	22.3	18.6	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)