

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: P296343

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296343
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-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4689.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

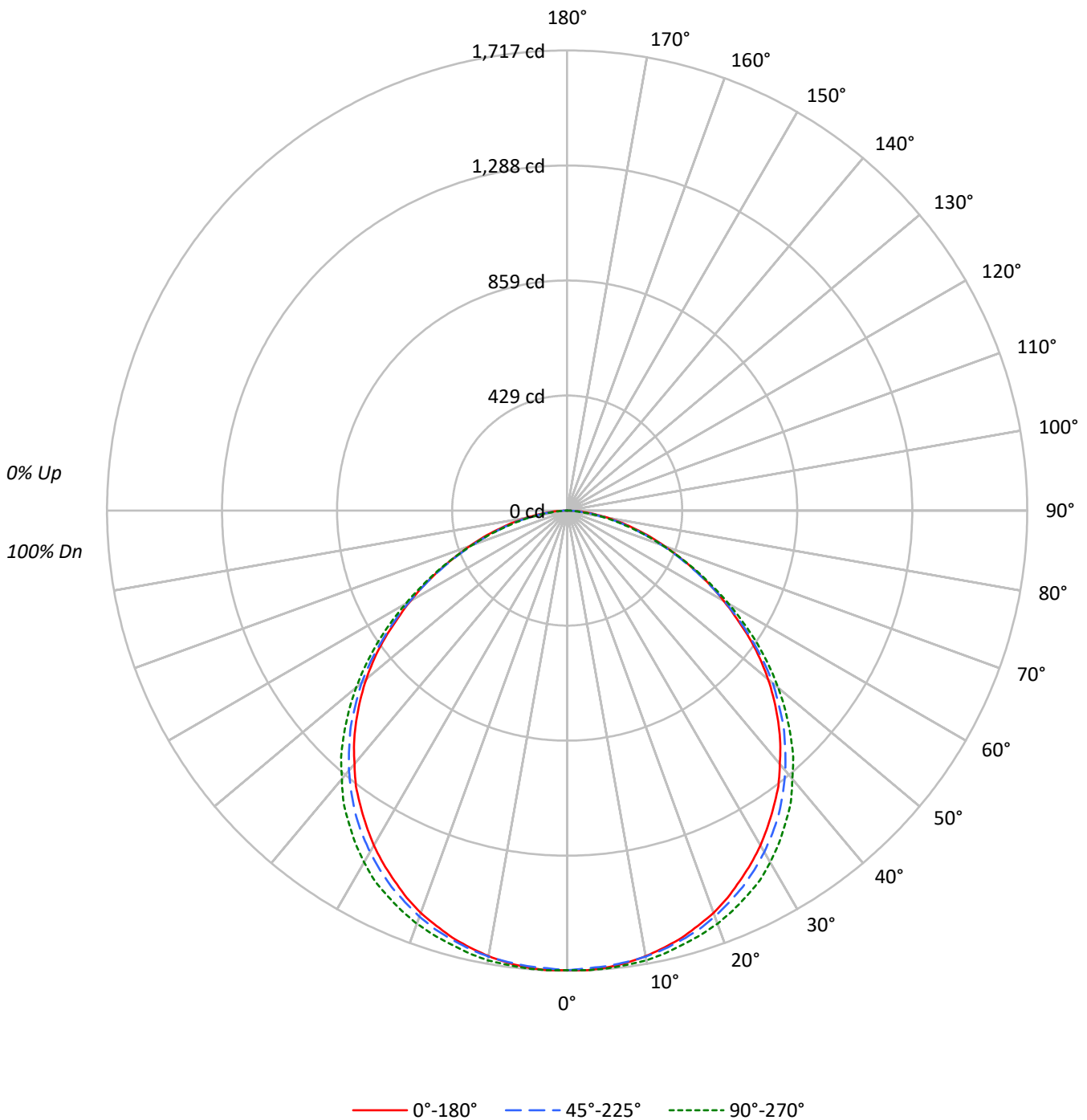
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2307	2307	2307
5°	2311	2304	2316
10°	2306	2309	2328
15°	2299	2309	2334
20°	2287	2308	2348
25°	2263	2300	2356
30°	2241	2286	2355
35°	2209	2264	2335
40°	2168	2224	2296
45°	2119	2173	2241
50°	2048	2096	2152
55°	1949	1974	2032
60°	1819	1829	1876
65°	1671	1659	1699
70°	1519	1476	1483
75°	1350	1276	1267
80°	1172	1048	1020
85°	962	741	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.5
10°-20°	468.8	10.0
20°-30°	715.6	15.3
30°-40°	862.7	18.4
40°-50°	879.8	18.8
50°-60°	753.0	16.1
60°-70°	518.7	11.1
70°-80°	265.9	5.7
80°-90°	61.9	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°	1347.1	28.7
0°-40°	2209.8	47.1
0°-60°	3842.6	81.9
0°-90°	4689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1711	1708	1706	1711	1715	163
15°	1651	1649	1658	1670	1676	466
25°	1524	1530	1549	1576	1587	703
35°	1345	1350	1379	1409	1421	841
45°	1114	1115	1142	1170	1178	858
55°	831	825	841	859	866	741
65°	525	512	521	525	534	521
75°	260	249	246	246	244	280
85°	62	55	48	43	37	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.8	1714.8	1714.8	1714.8	1714.8
2.5°	1716.6	1713.0	1709.4	1713.0	1716.6
5°	1711.2	1707.7	1705.9	1711.2	1714.8
7.5°	1702.3	1698.8	1698.8	1705.9	1709.4
10°	1688.1	1686.3	1689.9	1697.0	1704.1
12.5°	1670.3	1670.3	1675.7	1684.5	1691.7
15°	1650.7	1649.0	1657.9	1670.3	1675.7
17.5°	1624.1	1625.8	1638.3	1652.5	1659.6
20°	1597.4	1599.2	1611.6	1631.2	1640.1
22.5°	1563.6	1567.1	1581.4	1606.3	1615.2
25°	1524.5	1529.8	1549.4	1576.0	1586.7
27.5°	1485.3	1490.7	1512.0	1542.2	1556.5
30°	1442.6	1449.7	1471.1	1503.1	1515.6
32.5°	1394.6	1399.9	1426.6	1458.6	1471.1
35°	1344.8	1350.1	1378.6	1408.8	1421.3
37.5°	1295.0	1295.0	1323.4	1359.0	1371.5
40°	1234.5	1236.3	1266.5	1300.3	1307.4
42.5°	1177.6	1177.6	1204.3	1236.3	1248.7
45°	1113.5	1115.3	1142.0	1170.5	1177.6
47.5°	1047.7	1047.7	1070.9	1097.5	1104.6
50°	978.4	974.8	1001.5	1022.8	1028.2
52.5°	907.2	901.9	923.2	941.0	948.1
55°	830.7	825.4	841.4	859.2	866.3
57.5°	750.7	743.5	761.3	777.3	780.9
60°	676.0	665.3	679.5	688.4	697.3
62.5°	601.2	588.8	599.5	604.8	611.9
65°	524.8	512.3	521.2	524.8	533.6
67.5°	451.8	442.9	444.7	450.0	453.6
70°	386.0	375.3	375.3	375.3	377.1
72.5°	325.5	309.5	307.7	309.5	309.5
75°	259.7	249.0	245.5	245.5	243.7
77.5°	208.1	193.9	192.1	188.6	185.0
80°	151.2	138.7	135.2	133.4	131.6
82.5°	105.0	94.3	90.7	87.2	81.8
85°	62.3	55.1	48.0	42.7	37.4
87.5°	23.1	21.3	17.8	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)