

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: P296194

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296194
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-LD5-55-RDP-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4785.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

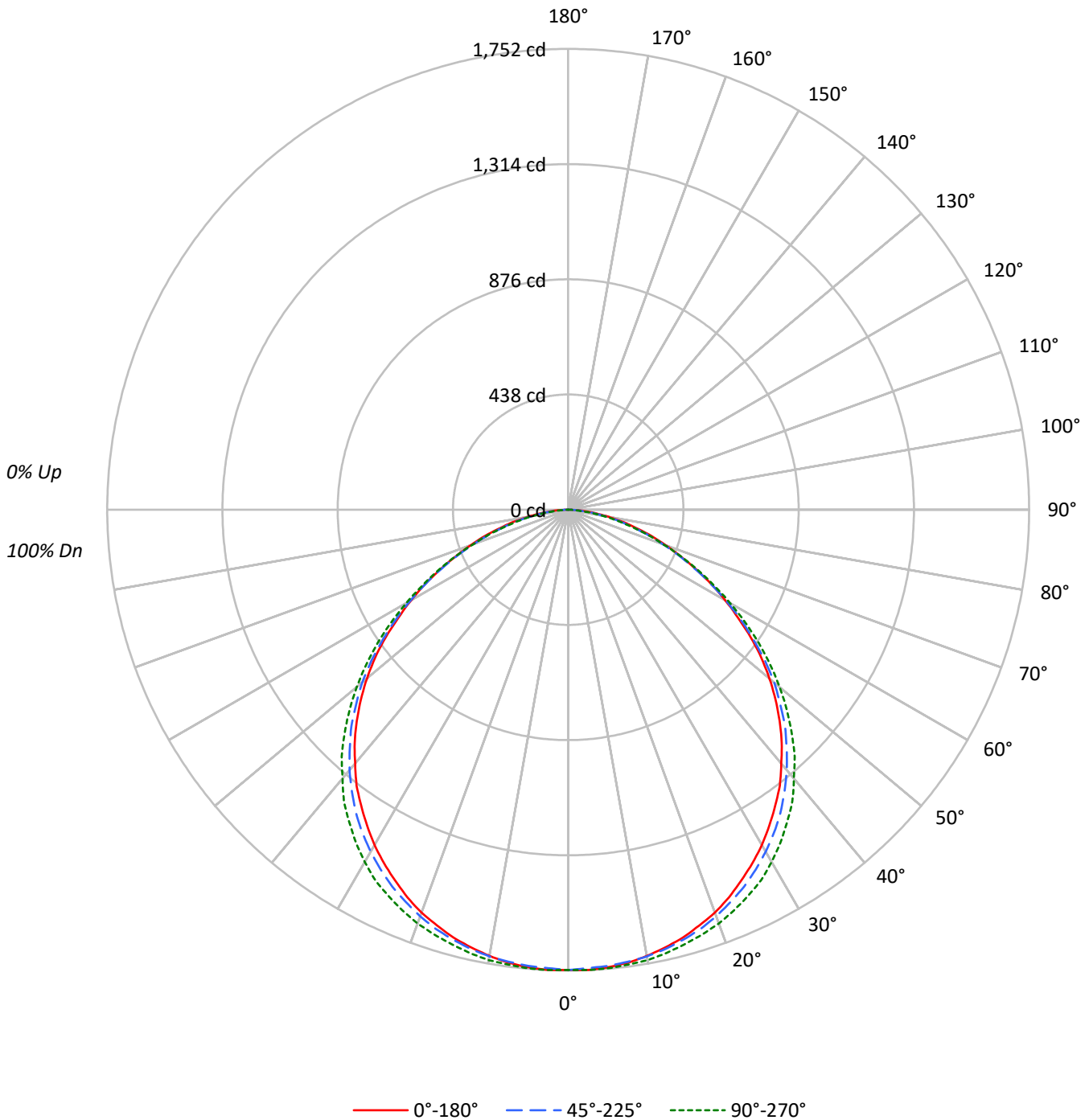
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2354	2354	2354
5°	2359	2351	2363
10°	2354	2356	2376
15°	2346	2357	2382
20°	2334	2355	2396
25°	2310	2347	2404
30°	2287	2332	2403
35°	2254	2311	2382
40°	2213	2270	2343
45°	2162	2218	2287
50°	2090	2139	2196
55°	1989	2014	2074
60°	1856	1866	1915
65°	1705	1693	1734
70°	1550	1507	1514
75°	1378	1302	1293
80°	1196	1069	1041
85°	980	756	588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	3.5
10°-20°	478.4	10.0
20°-30°	730.3	15.3
30°-40°	880.4	18.4
40°-50°	897.8	18.8
50°-60°	768.4	16.1
60°-70°	529.3	11.1
70°-80°	271.3	5.7
80°-90°	63.2	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°	1374.7	28.7
0°-40°	2255.1	47.1
0°-60°	3921.3	81.9
0°-90°	4785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1746	1743	1741	1746	1750	166
15°	1684	1683	1692	1704	1710	475
25°	1556	1561	1581	1608	1619	717
35°	1372	1378	1407	1438	1450	859
45°	1136	1138	1165	1194	1202	876
55°	848	842	859	877	884	756
65°	536	523	532	536	545	532
75°	265	254	250	250	249	286
85°	64	56	49	44	38	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.9	1749.9	1749.9	1749.9	1749.9
2.5°	1751.7	1748.1	1744.4	1748.1	1751.7
5°	1746.3	1742.6	1740.8	1746.3	1749.9
7.5°	1737.2	1733.6	1733.6	1740.8	1744.4
10°	1722.7	1720.8	1724.5	1731.7	1739.0
12.5°	1704.5	1704.5	1710.0	1719.0	1726.3
15°	1684.5	1682.7	1691.8	1704.5	1710.0
17.5°	1657.3	1659.1	1671.8	1686.4	1693.6
20°	1630.1	1631.9	1644.6	1664.6	1673.7
22.5°	1595.6	1599.2	1613.7	1639.2	1648.2
25°	1555.7	1561.1	1581.1	1608.3	1619.2
27.5°	1515.7	1521.2	1543.0	1573.8	1588.3
30°	1472.2	1479.4	1501.2	1533.9	1546.6
32.5°	1423.1	1428.6	1455.8	1488.5	1501.2
35°	1372.3	1377.8	1406.8	1437.7	1450.4
37.5°	1321.5	1321.5	1350.5	1386.8	1399.6
40°	1259.8	1261.6	1292.5	1326.9	1334.2
42.5°	1201.7	1201.7	1228.9	1261.6	1274.3
45°	1136.3	1138.2	1165.4	1194.4	1201.7
47.5°	1069.2	1069.2	1092.8	1120.0	1127.3
50°	998.4	994.8	1022.0	1043.8	1049.2
52.5°	925.8	920.3	942.1	960.3	967.5
55°	847.7	842.3	858.6	876.8	884.0
57.5°	766.0	758.8	776.9	793.3	796.9
60°	689.8	678.9	693.4	702.5	711.6
62.5°	613.6	600.8	611.7	617.2	624.4
65°	535.5	522.8	531.9	535.5	544.6
67.5°	461.1	452.0	453.8	459.3	462.9
70°	393.9	383.0	383.0	383.0	384.8
72.5°	332.2	315.9	314.0	315.9	315.9
75°	265.0	254.1	250.5	250.5	248.7
77.5°	212.4	197.9	196.0	192.4	188.8
80°	154.3	141.6	138.0	136.1	134.3
82.5°	107.1	96.2	92.6	88.9	83.5
85°	63.5	56.3	49.0	43.6	38.1
87.5°	23.6	21.8	18.2	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)