

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: P296036

Luminaire Tested: **24RLN-LD5-45-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-45-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4268.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

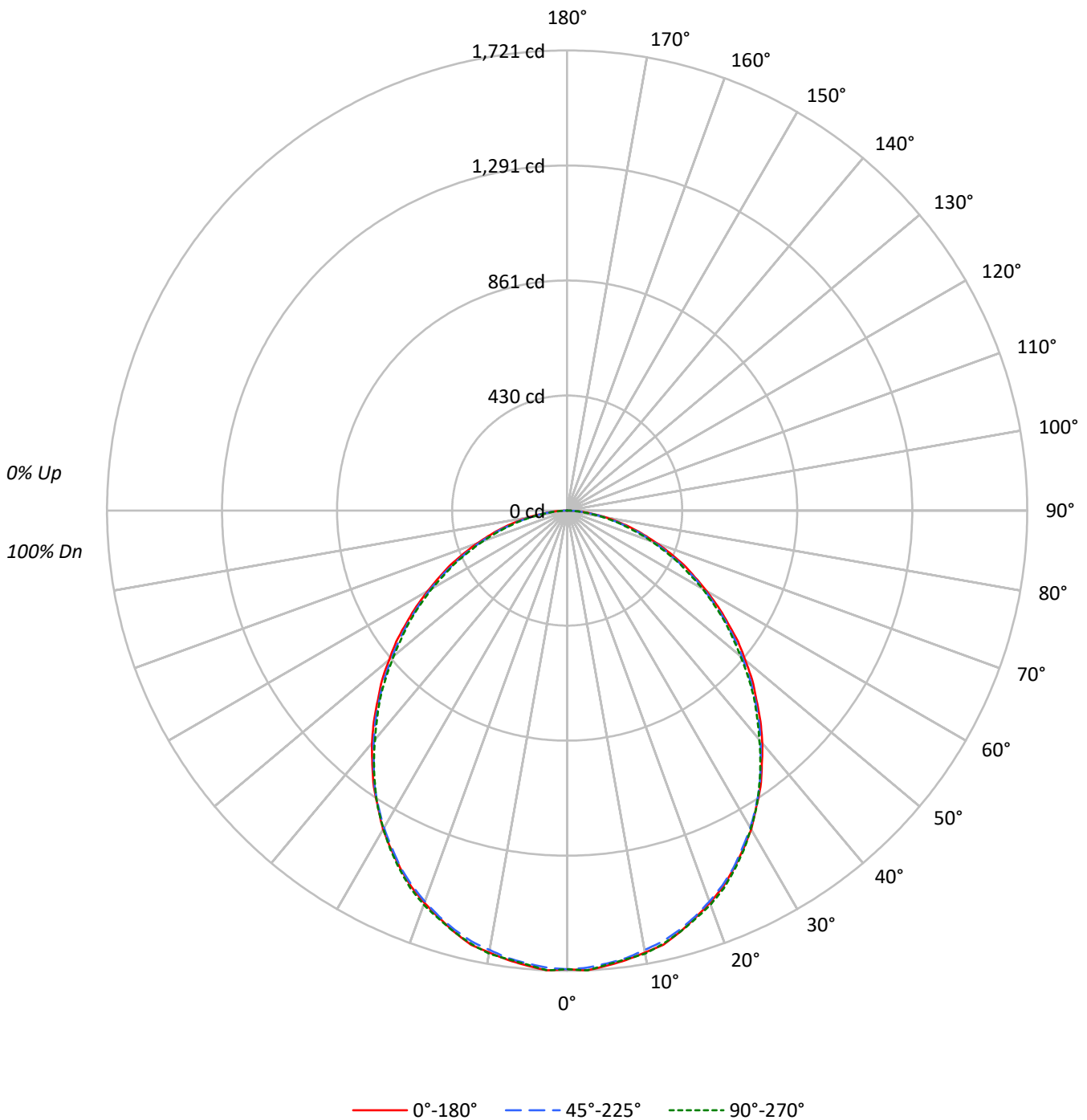
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2308	2308	2308
5°	2308	2297	2302
10°	2293	2280	2299
15°	2273	2261	2273
20°	2236	2228	2246
25°	2191	2187	2199
30°	2139	2128	2135
35°	2072	2063	2058
40°	1995	1976	1964
45°	1905	1886	1878
50°	1819	1790	1770
55°	1722	1696	1680
60°	1619	1590	1571
65°	1530	1473	1460
70°	1403	1349	1322
75°	1288	1210	1160
80°	1131	1056	993
85°	914	851	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.8
10°-20°	458.9	10.8
20°-30°	678.8	15.9
30°-40°	783.4	18.4
40°-50°	765.2	17.9
50°-60°	646.1	15.1
60°-70°	460.2	10.8
70°-80°	249.2	5.8
80°-90°	64.3	1.5
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°	1299.6	30.4
0°-40°	2083.0	48.8
0°-60°	3494.3	81.9
0°-90°	4268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1709	1709	1700	1705	1705	162
15°	1632	1625	1623	1630	1632	460
25°	1476	1468	1473	1479	1482	680
35°	1261	1252	1256	1252	1253	787
45°	1001	993	991	987	987	774
55°	734	724	723	716	716	658
65°	480	471	463	457	458	474
75°	248	240	233	227	223	262
85°	59	58	55	48	47	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1721.1	1714.2	1711.5	1712.9	1721.1
5°	1708.7	1708.7	1700.5	1704.6	1704.6
7.5°	1695.0	1696.3	1688.1	1695.0	1692.2
10°	1678.4	1674.3	1668.8	1679.8	1682.6
12.5°	1663.3	1653.7	1650.9	1657.8	1659.2
15°	1631.6	1624.7	1623.4	1630.2	1631.6
17.5°	1595.8	1597.2	1591.7	1601.3	1600.0
20°	1561.4	1558.6	1555.9	1566.9	1568.3
22.5°	1522.8	1514.6	1517.3	1527.0	1529.7
25°	1476.0	1467.8	1473.3	1478.8	1481.5
27.5°	1426.5	1422.3	1421.0	1427.8	1430.6
30°	1376.9	1370.0	1370.0	1378.3	1374.1
32.5°	1316.3	1310.8	1313.6	1316.3	1317.7
35°	1261.2	1251.6	1255.7	1251.6	1253.0
37.5°	1196.5	1189.6	1188.3	1186.9	1186.9
40°	1135.9	1130.4	1124.9	1124.9	1118.0
42.5°	1069.8	1063.0	1060.2	1056.1	1051.9
45°	1001.0	992.7	991.4	987.2	987.2
47.5°	939.0	926.7	925.3	917.0	917.0
50°	868.8	860.6	855.1	849.5	845.4
52.5°	805.5	797.2	789.0	783.5	779.3
55°	733.9	724.2	722.9	716.0	716.0
57.5°	669.2	660.9	655.4	647.1	648.5
60°	601.7	593.4	590.7	583.8	583.8
62.5°	538.4	531.5	527.4	520.5	515.0
65°	480.5	470.9	462.6	457.1	458.5
67.5°	417.2	406.2	402.1	396.5	392.4
70°	356.6	349.7	342.8	336.0	336.0
72.5°	300.2	293.3	289.1	280.9	278.1
75°	247.8	239.6	232.7	227.2	223.1
77.5°	195.5	187.3	183.1	176.2	176.2
80°	146.0	140.4	136.3	133.6	128.1
82.5°	100.5	97.8	93.6	89.5	85.4
85°	59.2	57.8	55.1	48.2	46.8
87.5°	23.4	23.4	20.7	19.3	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)