

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: P296037

Luminaire Tested: **24RLN-LD5-45-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296037
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-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4287.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

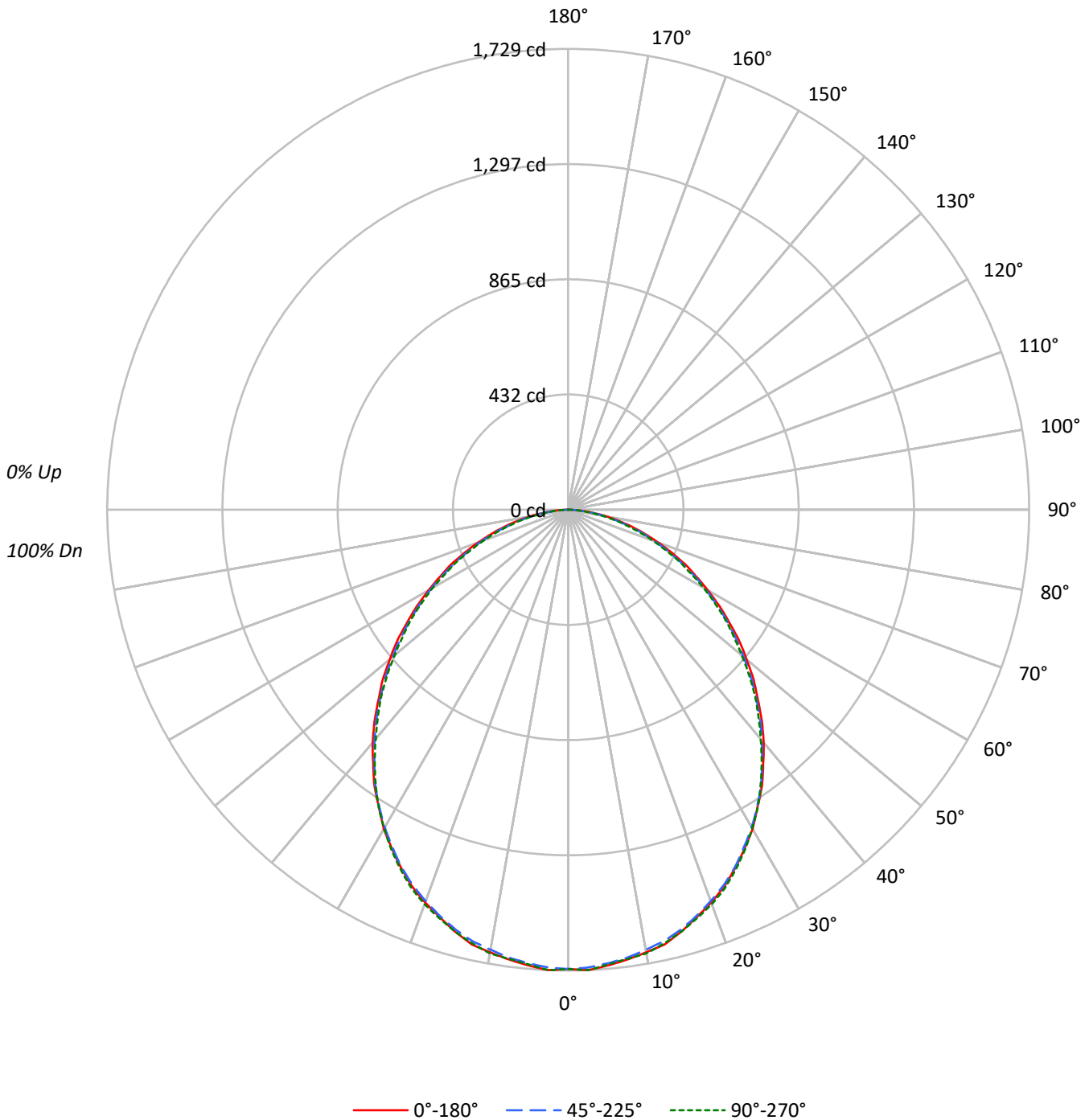
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2319	2319	2319
5°	2318	2307	2313
10°	2303	2290	2309
15°	2283	2271	2283
20°	2246	2238	2256
25°	2201	2197	2209
30°	2149	2138	2144
35°	2081	2072	2067
40°	2004	1985	1972
45°	1913	1895	1887
50°	1827	1798	1778
55°	1729	1703	1687
60°	1626	1597	1578
65°	1537	1479	1466
70°	1409	1355	1328
75°	1294	1215	1165
80°	1136	1061	996
85°	919	854	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.8
10°-20°	460.9	10.8
20°-30°	681.8	15.9
30°-40°	786.9	18.4
40°-50°	768.6	17.9
50°-60°	649.0	15.1
60°-70°	462.3	10.8
70°-80°	250.3	5.8
80°-90°	64.6	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°	1305.4	30.4
0°-40°	2092.3	48.8
0°-60°	3509.9	81.9
0°-90°	4287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1716	1716	1708	1712	1712	163
15°	1639	1632	1631	1638	1639	462
25°	1483	1474	1480	1485	1488	683
35°	1267	1257	1261	1257	1259	791
45°	1006	997	996	992	992	777
55°	737	728	726	719	719	661
65°	483	473	465	459	460	476
75°	249	241	234	228	224	263
85°	60	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°	1723.3	1723.3	1723.3	1723.3	1723.3
2.5°	1728.8	1721.9	1719.1	1720.5	1728.8
5°	1716.3	1716.3	1708.0	1712.2	1712.2
7.5°	1702.5	1703.9	1695.6	1702.5	1699.7
10°	1685.9	1681.8	1676.2	1687.3	1690.1
12.5°	1670.7	1661.0	1658.2	1665.2	1666.5
15°	1638.9	1632.0	1630.6	1637.5	1638.9
17.5°	1602.9	1604.3	1598.8	1608.5	1607.1
20°	1568.4	1565.6	1562.8	1573.9	1575.3
22.5°	1529.6	1521.3	1524.1	1533.8	1536.5
25°	1482.6	1474.3	1479.8	1485.4	1488.1
27.5°	1432.8	1428.7	1427.3	1434.2	1437.0
30°	1383.0	1376.1	1376.1	1384.4	1380.3
32.5°	1322.2	1316.6	1319.4	1322.2	1323.6
35°	1266.9	1257.2	1261.3	1257.2	1258.6
37.5°	1201.9	1194.9	1193.6	1192.2	1192.2
40°	1141.0	1135.5	1129.9	1129.9	1123.0
42.5°	1074.6	1067.7	1064.9	1060.8	1056.6
45°	1005.5	997.2	995.8	991.6	991.6
47.5°	943.2	930.8	929.4	921.1	921.1
50°	872.7	864.4	858.9	853.3	849.2
52.5°	809.1	800.8	792.5	786.9	782.8
55°	737.2	727.5	726.1	719.2	719.2
57.5°	672.2	663.9	658.3	650.0	651.4
60°	604.4	596.1	593.3	586.4	586.4
62.5°	540.8	533.8	529.7	522.8	517.3
65°	482.7	473.0	464.7	459.2	460.5
67.5°	419.1	408.0	403.8	398.3	394.2
70°	358.2	351.3	344.4	337.5	337.5
72.5°	301.5	294.6	290.4	282.1	279.4
75°	248.9	240.6	233.7	228.2	224.1
77.5°	196.4	188.1	183.9	177.0	177.0
80°	146.6	141.1	136.9	134.2	128.6
82.5°	101.0	98.2	94.0	89.9	85.7
85°	59.5	58.1	55.3	48.4	47.0
87.5°	23.5	23.5	20.7	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)