

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: P296040

Luminaire Tested: **24RLN-LD5-50-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296040
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-LD5-50-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4067.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

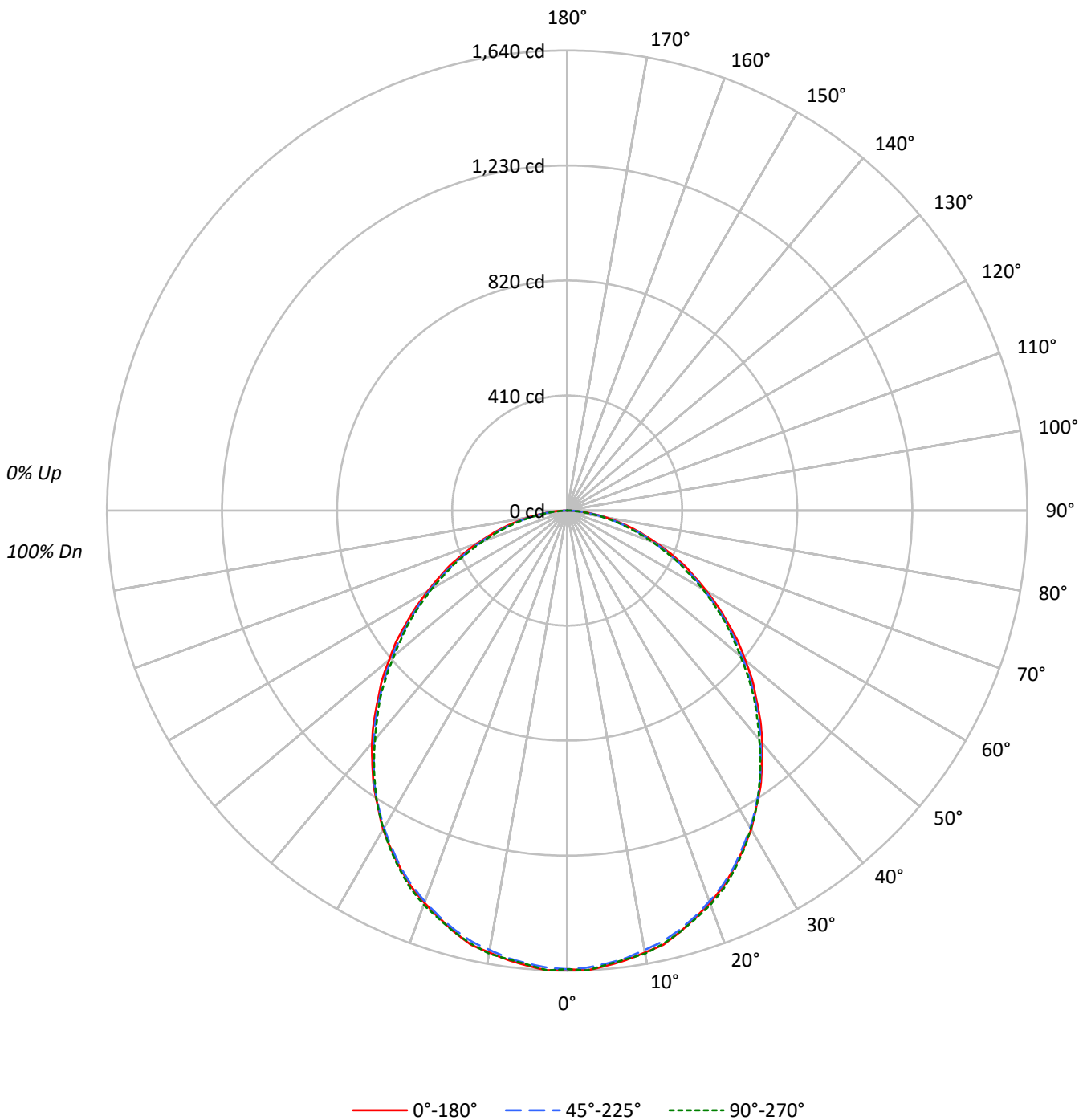
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2200	2200	2200
5°	2199	2189	2194
10°	2185	2173	2191
15°	2166	2155	2166
20°	2130	2123	2140
25°	2088	2084	2096
30°	2039	2028	2034
35°	1974	1965	1961
40°	1901	1883	1871
45°	1815	1798	1790
50°	1733	1706	1686
55°	1640	1616	1601
60°	1543	1515	1497
65°	1458	1403	1391
70°	1337	1285	1259
75°	1228	1153	1105
80°	1078	1007	945
85°	871	810	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	3.8
10°-20°	437.3	10.8
20°-30°	646.8	15.9
30°-40°	746.5	18.4
40°-50°	729.1	17.9
50°-60°	615.7	15.1
60°-70°	438.6	10.8
70°-80°	237.4	5.8
80°-90°	61.3	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°	1238.4	30.4
0°-40°	1984.9	48.8
0°-60°	3329.7	81.9
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1628	1628	1620	1624	1624	155
15°	1555	1548	1547	1554	1555	438
25°	1406	1399	1404	1409	1412	648
35°	1202	1193	1197	1193	1194	750
45°	954	946	945	941	941	738
55°	699	690	689	682	682	627
65°	458	449	441	436	437	451
75°	236	228	222	216	213	250
85°	56	55	52	46	45	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.8	1634.8	1634.8	1634.8	1634.8
2.5°	1640.1	1633.5	1630.9	1632.2	1640.1
5°	1628.3	1628.3	1620.4	1624.3	1624.3
7.5°	1615.1	1616.4	1608.6	1615.1	1612.5
10°	1599.4	1595.5	1590.2	1600.7	1603.3
12.5°	1585.0	1575.8	1573.2	1579.7	1581.0
15°	1554.8	1548.2	1546.9	1553.5	1554.8
17.5°	1520.7	1522.0	1516.7	1525.9	1524.6
20°	1487.9	1485.2	1482.6	1493.1	1494.4
22.5°	1451.1	1443.3	1445.9	1455.1	1457.7
25°	1406.5	1398.6	1403.9	1409.1	1411.8
27.5°	1359.3	1355.4	1354.0	1360.6	1363.2
30°	1312.1	1305.5	1305.5	1313.4	1309.4
32.5°	1254.3	1249.1	1251.7	1254.3	1255.6
35°	1201.8	1192.7	1196.6	1192.7	1194.0
37.5°	1140.2	1133.6	1132.3	1131.0	1131.0
40°	1082.4	1077.2	1071.9	1071.9	1065.4
42.5°	1019.5	1012.9	1010.3	1006.3	1002.4
45°	953.9	946.0	944.7	940.7	940.7
47.5°	894.8	883.0	881.7	873.8	873.8
50°	827.9	820.0	814.8	809.5	805.6
52.5°	767.6	759.7	751.8	746.6	742.6
55°	699.3	690.1	688.8	682.3	682.3
57.5°	637.7	629.8	624.5	616.7	618.0
60°	573.4	565.5	562.9	556.3	556.3
62.5°	513.0	506.5	502.5	496.0	490.7
65°	457.9	448.7	440.8	435.6	436.9
67.5°	397.6	387.1	383.1	377.9	373.9
70°	339.8	333.3	326.7	320.1	320.1
72.5°	286.0	279.5	275.5	267.7	265.0
75°	236.2	228.3	221.7	216.5	212.6
77.5°	186.3	178.4	174.5	167.9	167.9
80°	139.1	133.8	129.9	127.3	122.0
82.5°	95.8	93.2	89.2	85.3	81.3
85°	56.4	55.1	52.5	45.9	44.6
87.5°	22.3	22.3	19.7	18.4	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)