

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: P296045

Luminaire Tested: **24RLN-LD5-50-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296045
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-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: 4685.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

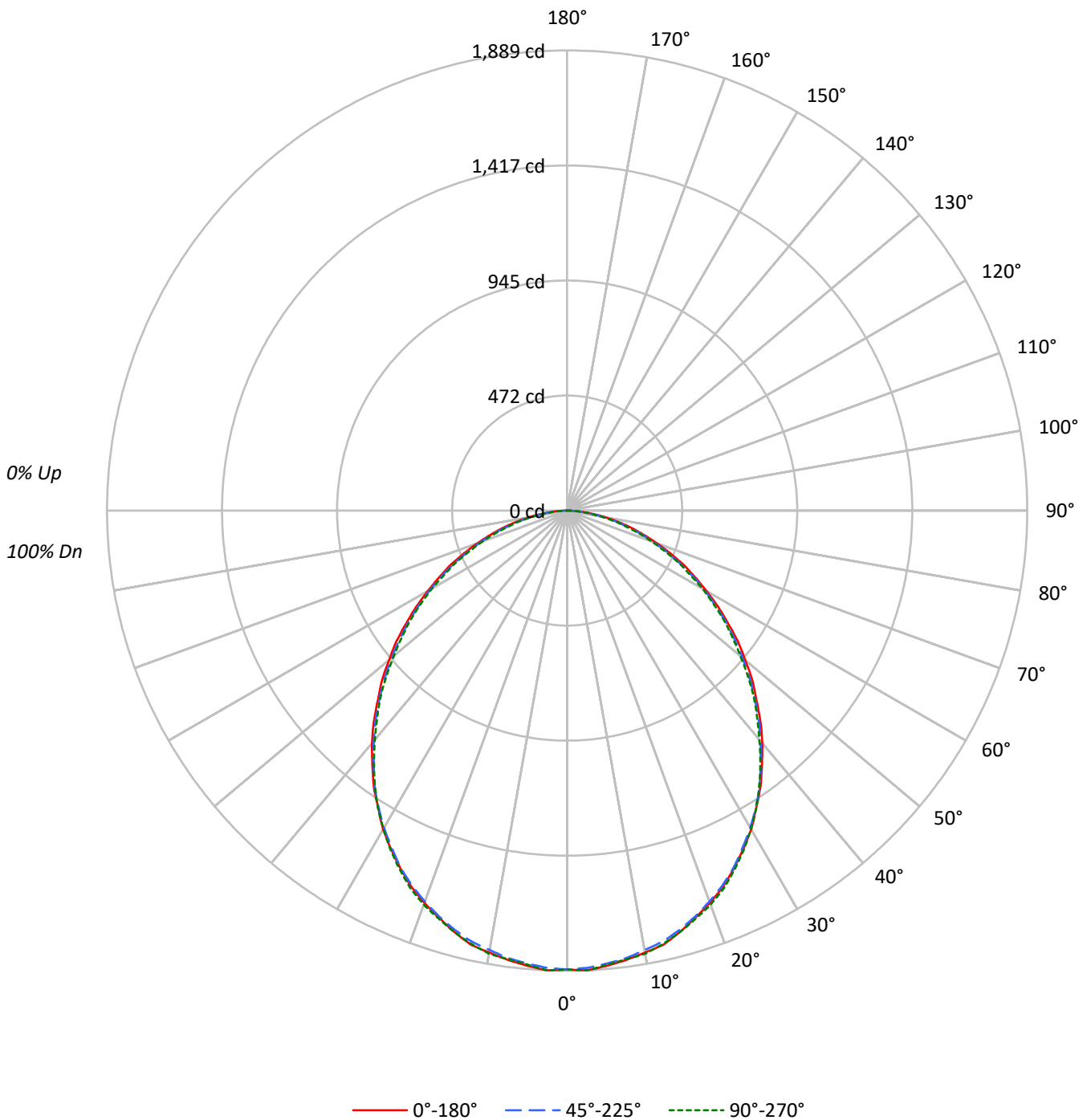
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2534	2534	2534
5°	2533	2521	2527
10°	2517	2503	2523
15°	2495	2482	2495
20°	2454	2445	2465
25°	2405	2401	2414
30°	2348	2337	2344
35°	2274	2264	2259
40°	2190	2169	2156
45°	2091	2071	2062
50°	1996	1965	1942
55°	1890	1861	1844
60°	1777	1745	1724
65°	1679	1617	1602
70°	1540	1480	1451
75°	1415	1328	1273
80°	1241	1159	1089
85°	1003	934	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	3.8
10°-20°	503.7	10.8
20°-30°	745.1	15.9
30°-40°	860.0	18.4
40°-50°	839.9	17.9
50°-60°	709.2	15.1
60°-70°	505.2	10.8
70°-80°	273.5	5.8
80°-90°	70.6	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°	1426.6	30.4
0°-40°	2286.5	48.8
0°-60°	3835.7	81.9
0°-90°	4685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1876	1876	1867	1871	1871	178
15°	1791	1784	1782	1790	1791	504
25°	1620	1611	1617	1623	1626	746
35°	1384	1374	1378	1374	1375	864
45°	1099	1090	1088	1084	1084	850
55°	806	795	794	786	786	722
65°	528	517	508	502	503	520
75°	272	263	255	249	245	288
85°	65	64	60	53	51	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1883.2	1883.2	1883.2	1883.2	1883.2
2.5°	1889.3	1881.7	1878.7	1880.2	1889.3
5°	1875.7	1875.7	1866.6	1871.1	1871.1
7.5°	1860.6	1862.1	1853.0	1860.6	1857.5
10°	1842.4	1837.9	1831.8	1843.9	1847.0
12.5°	1825.8	1815.2	1812.2	1819.8	1821.3
15°	1791.0	1783.5	1782.0	1789.5	1791.0
17.5°	1751.7	1753.3	1747.2	1757.8	1756.3
20°	1714.0	1710.9	1707.9	1720.0	1721.5
22.5°	1671.6	1662.6	1665.6	1676.2	1679.2
25°	1620.2	1611.2	1617.2	1623.3	1626.3
27.5°	1565.8	1561.3	1559.8	1567.3	1570.4
30°	1511.4	1503.9	1503.9	1512.9	1508.4
32.5°	1444.9	1438.9	1441.9	1444.9	1446.4
35°	1384.5	1373.9	1378.4	1373.9	1375.4
37.5°	1313.4	1305.9	1304.4	1302.8	1302.8
40°	1246.9	1240.9	1234.8	1234.8	1227.3
42.5°	1174.4	1166.8	1163.8	1159.3	1154.7
45°	1098.8	1089.7	1088.2	1083.7	1083.7
47.5°	1030.8	1017.2	1015.7	1006.6	1006.6
50°	953.7	944.6	938.6	932.5	928.0
52.5°	884.2	875.1	866.0	860.0	855.5
55°	805.6	795.0	793.5	785.9	785.9
57.5°	734.6	725.5	719.4	710.4	711.9
60°	660.5	651.4	648.4	640.8	640.8
62.5°	591.0	583.4	578.9	571.3	565.3
65°	527.5	516.9	507.8	501.8	503.3
67.5°	458.0	445.9	441.3	435.3	430.8
70°	391.5	383.9	376.3	368.8	368.8
72.5°	329.5	321.9	317.4	308.3	305.3
75°	272.1	263.0	255.4	249.4	244.9
77.5°	214.6	205.6	201.0	193.5	193.5
80°	160.2	154.2	149.6	146.6	140.6
82.5°	110.3	107.3	102.8	98.2	93.7
85°	65.0	63.5	60.5	52.9	51.4
87.5°	25.7	25.7	22.7	21.2	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)