

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: P295980

Luminaire Tested: **24RLN-LD5-55-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295980
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-LD5-55-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5094.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

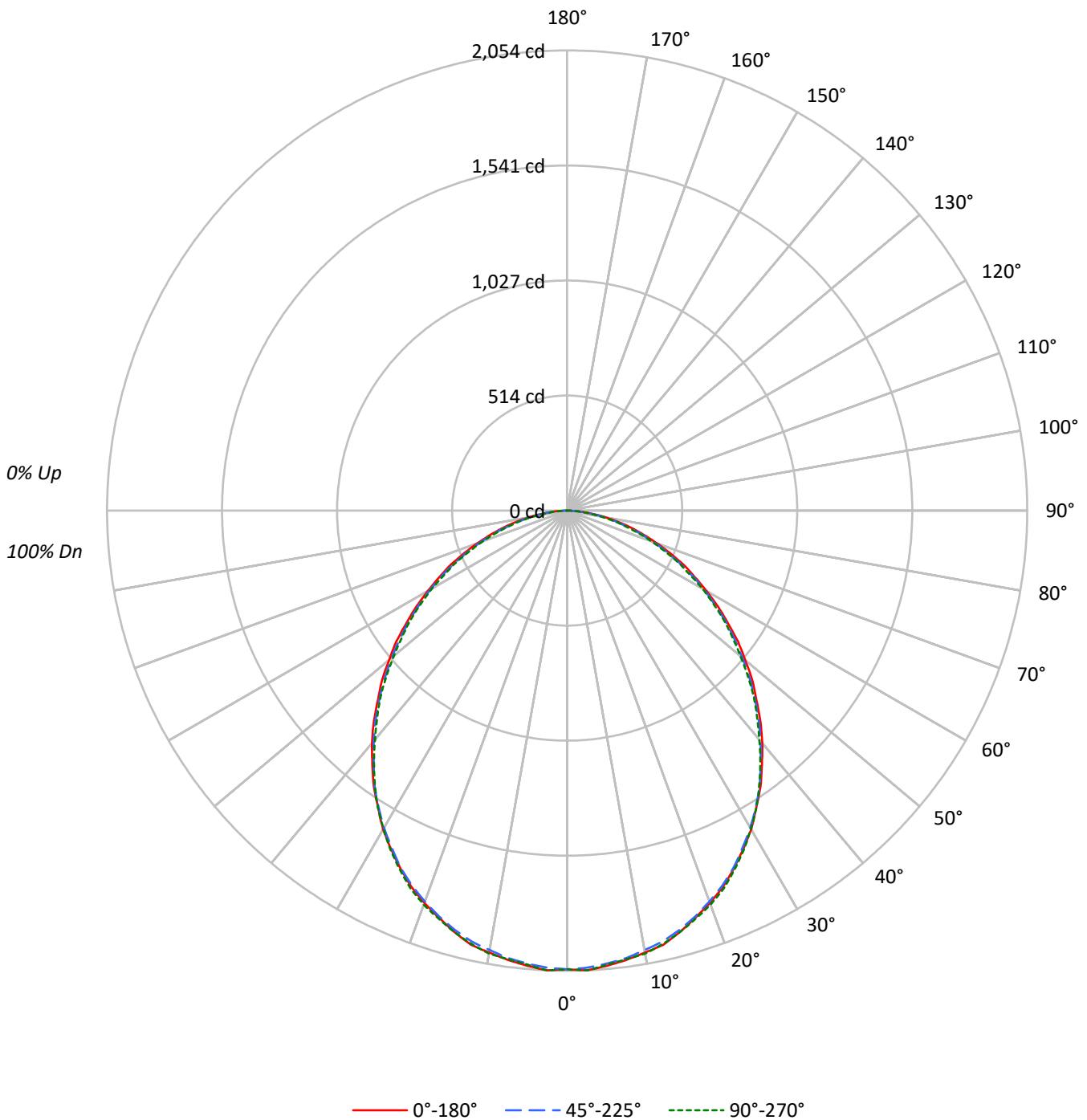
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2755	2755	2755
5°	2754	2741	2748
10°	2737	2721	2744
15°	2713	2699	2713
20°	2668	2659	2680
25°	2615	2610	2625
30°	2553	2541	2548
35°	2473	2462	2456
40°	2381	2358	2344
45°	2273	2251	2242
50°	2171	2136	2112
55°	2055	2024	2005
60°	1933	1897	1875
65°	1826	1758	1742
70°	1674	1610	1578
75°	1538	1444	1384
80°	1350	1261	1184
85°	1091	1014	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	3.8
10°-20°	547.7	10.8
20°-30°	810.2	15.9
30°-40°	935.0	18.4
40°-50°	913.2	17.9
50°-60°	771.2	15.1
60°-70°	549.3	10.8
70°-80°	297.4	5.8
80°-90°	76.7	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°	1551.1	30.4
0°-40°	2486.1	48.8
0°-60°	4170.6	81.9
0°-90°	5094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2039	2039	2030	2034	2034	194
15°	1947	1939	1938	1946	1947	549
25°	1762	1752	1758	1765	1768	811
35°	1505	1494	1499	1494	1496	939
45°	1195	1185	1183	1178	1178	924
55°	876	864	863	855	855	785
65°	574	562	552	546	547	565
75°	296	286	278	271	266	313
85°	71	69	66	58	56	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2054.2	2046.0	2042.7	2044.4	2054.2
5°	2039.4	2039.4	2029.6	2034.5	2034.5
7.5°	2023.0	2024.6	2014.8	2023.0	2019.7
10°	2003.3	1998.3	1991.8	2004.9	2008.2
12.5°	1985.2	1973.7	1970.4	1978.6	1980.3
15°	1947.4	1939.2	1937.5	1945.8	1947.4
17.5°	1904.7	1906.3	1899.7	1911.2	1909.6
20°	1863.6	1860.3	1857.0	1870.2	1871.8
22.5°	1817.6	1807.7	1811.0	1822.5	1825.8
25°	1761.7	1751.8	1758.4	1765.0	1768.3
27.5°	1702.5	1697.6	1696.0	1704.2	1707.5
30°	1643.4	1635.2	1635.2	1645.0	1640.1
32.5°	1571.1	1564.5	1567.8	1571.1	1572.7
35°	1505.3	1493.8	1498.8	1493.8	1495.5
37.5°	1428.1	1419.9	1418.2	1416.6	1416.6
40°	1355.8	1349.2	1342.6	1342.6	1334.4
42.5°	1276.9	1268.7	1265.4	1260.5	1255.5
45°	1194.7	1184.9	1183.2	1178.3	1178.3
47.5°	1120.8	1106.0	1104.3	1094.5	1094.5
50°	1037.0	1027.1	1020.5	1014.0	1009.0
52.5°	961.4	951.5	941.7	935.1	930.1
55°	875.9	864.4	862.8	854.6	854.6
57.5°	798.7	788.8	782.2	772.4	774.0
60°	718.2	708.3	705.0	696.8	696.8
62.5°	642.6	634.3	629.4	621.2	614.6
65°	573.5	562.0	552.2	545.6	547.2
67.5°	497.9	484.8	479.9	473.3	468.4
70°	425.6	417.4	409.2	401.0	401.0
72.5°	358.3	350.0	345.1	335.2	332.0
75°	295.8	285.9	277.7	271.2	266.2
77.5°	233.4	223.5	218.6	210.4	210.4
80°	174.2	167.6	162.7	159.4	152.8
82.5°	120.0	116.7	111.7	106.8	101.9
85°	70.7	69.0	65.7	57.5	55.9
87.5°	27.9	27.9	24.7	23.0	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)