

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: P293550

Luminaire Tested: **24GR-LD5-38-A-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

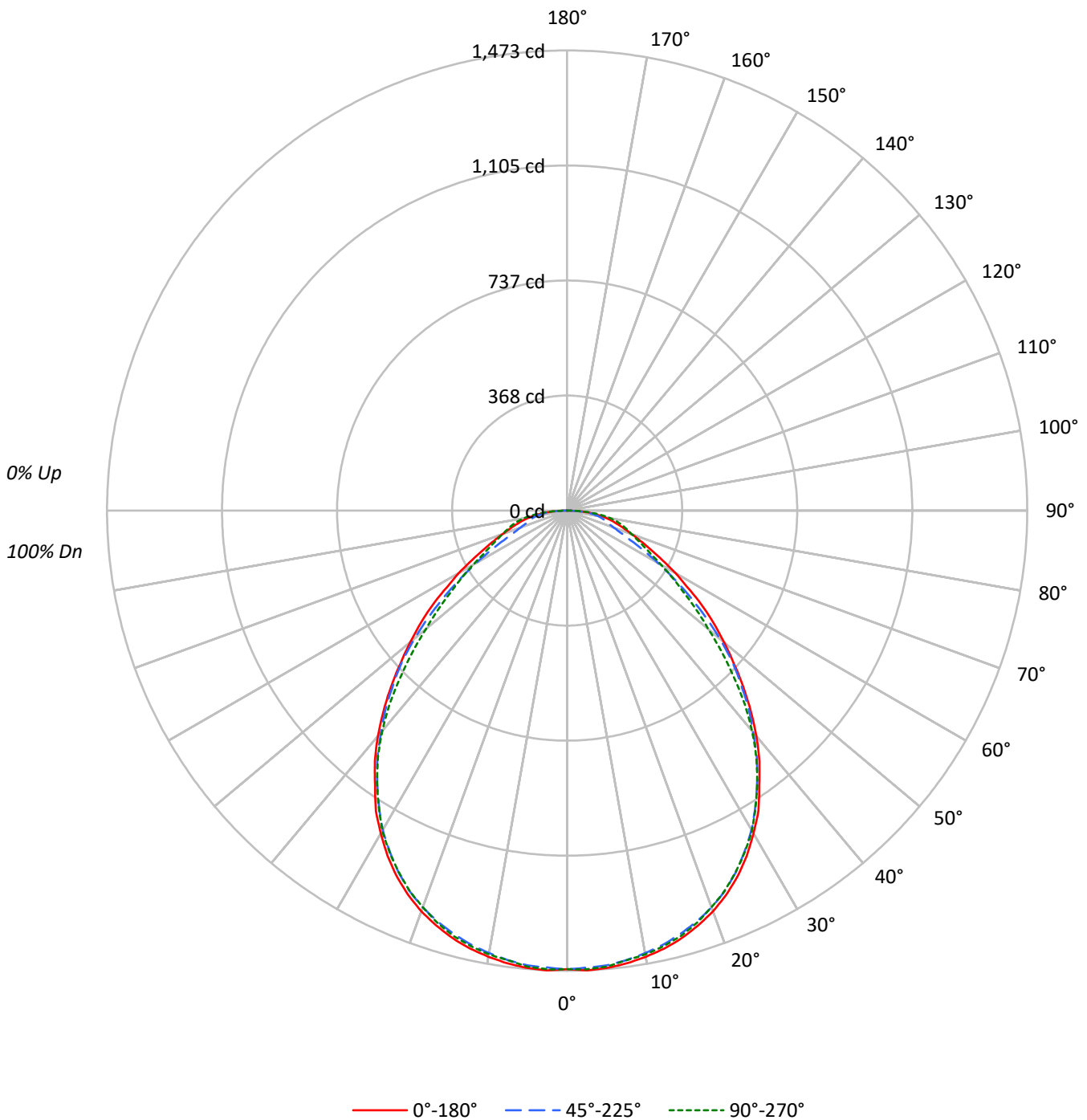
Input Watts (W): 25.871391
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1975	1975	1975
5°	1985	1974	1979
10°	1981	1965	1971
15°	1974	1954	1963
20°	1955	1935	1935
25°	1917	1897	1895
30°	1854	1835	1839
35°	1761	1741	1743
40°	1656	1627	1617
45°	1517	1497	1438
50°	1372	1334	1234
55°	1232	1121	1064
60°	1079	902	935
65°	941	710	861
70°	861	619	861
75°	861	659	949
80°	934	776	1082
85°	1027	875	1159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	4.2
10°-20°	396.8	12.0
20°-30°	588.3	17.8
30°-40°	663.7	20.1
40°-50°	601.1	18.2
50°-60°	433.7	13.1
60°-70°	258.9	7.8
70°-80°	160.0	4.8
80°-90°	67.4	2.0
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°	1124.1	34.0
0°-40°	1787.8	54.0
0°-60°	2822.6	85.3
0°-90°	3309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1470	1468	1462	1460	1465	140
15°	1417	1408	1403	1403	1409	399
25°	1291	1284	1278	1273	1276	593
35°	1072	1070	1060	1060	1061	671
45°	798	792	787	767	756	615
55°	525	509	478	454	453	469
65°	296	260	223	253	270	297
75°	166	144	127	158	182	177
85°	66	58	57	74	75	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.2	1468.2	1468.2	1468.2	1468.2
2.5°	1473.3	1469.2	1464.1	1467.1	1469.7
5°	1469.7	1467.7	1461.5	1460.0	1465.1
7.5°	1462.0	1456.9	1451.3	1453.9	1451.8
10°	1450.3	1445.7	1438.5	1439.0	1442.6
12.5°	1436.0	1430.3	1422.7	1424.7	1427.8
15°	1417.0	1408.4	1402.7	1403.2	1408.9
17.5°	1393.0	1386.4	1379.2	1380.7	1383.3
20°	1365.4	1361.8	1351.6	1348.5	1351.1
22.5°	1330.7	1324.0	1318.4	1316.8	1317.4
25°	1291.3	1284.1	1277.5	1272.9	1276.5
27.5°	1245.3	1239.1	1230.5	1228.9	1232.0
30°	1193.1	1188.5	1180.9	1178.8	1183.4
32.5°	1140.0	1132.3	1121.6	1121.6	1122.6
35°	1072.0	1070.5	1059.7	1060.2	1061.3
37.5°	1010.6	1003.5	997.4	991.2	994.3
40°	942.7	934.5	926.3	922.2	920.7
42.5°	869.6	863.4	859.8	845.0	841.4
45°	797.5	792.4	786.7	767.3	755.6
47.5°	723.9	722.8	718.2	684.0	672.2
50°	655.4	653.8	637.5	601.2	589.4
52.5°	590.4	580.2	558.7	523.0	520.9
55°	525.0	508.6	478.0	454.5	453.4
57.5°	456.0	436.6	405.4	392.6	399.2
60°	400.8	371.1	335.3	336.9	347.6
62.5°	343.5	310.3	275.0	290.4	303.1
65°	295.5	260.2	222.9	253.0	270.4
67.5°	253.6	220.8	185.1	225.4	242.3
70°	218.8	192.2	157.4	199.9	218.8
72.5°	191.2	166.7	139.6	179.4	201.4
75°	165.6	143.6	126.8	158.0	182.5
77.5°	143.6	122.2	114.5	139.6	163.6
80°	120.6	101.2	100.2	121.7	139.6
82.5°	94.1	80.8	80.8	101.7	112.5
85°	66.5	58.3	56.7	74.1	75.1
87.5°	34.3	32.7	29.6	38.9	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)