

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: P293856

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3298.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

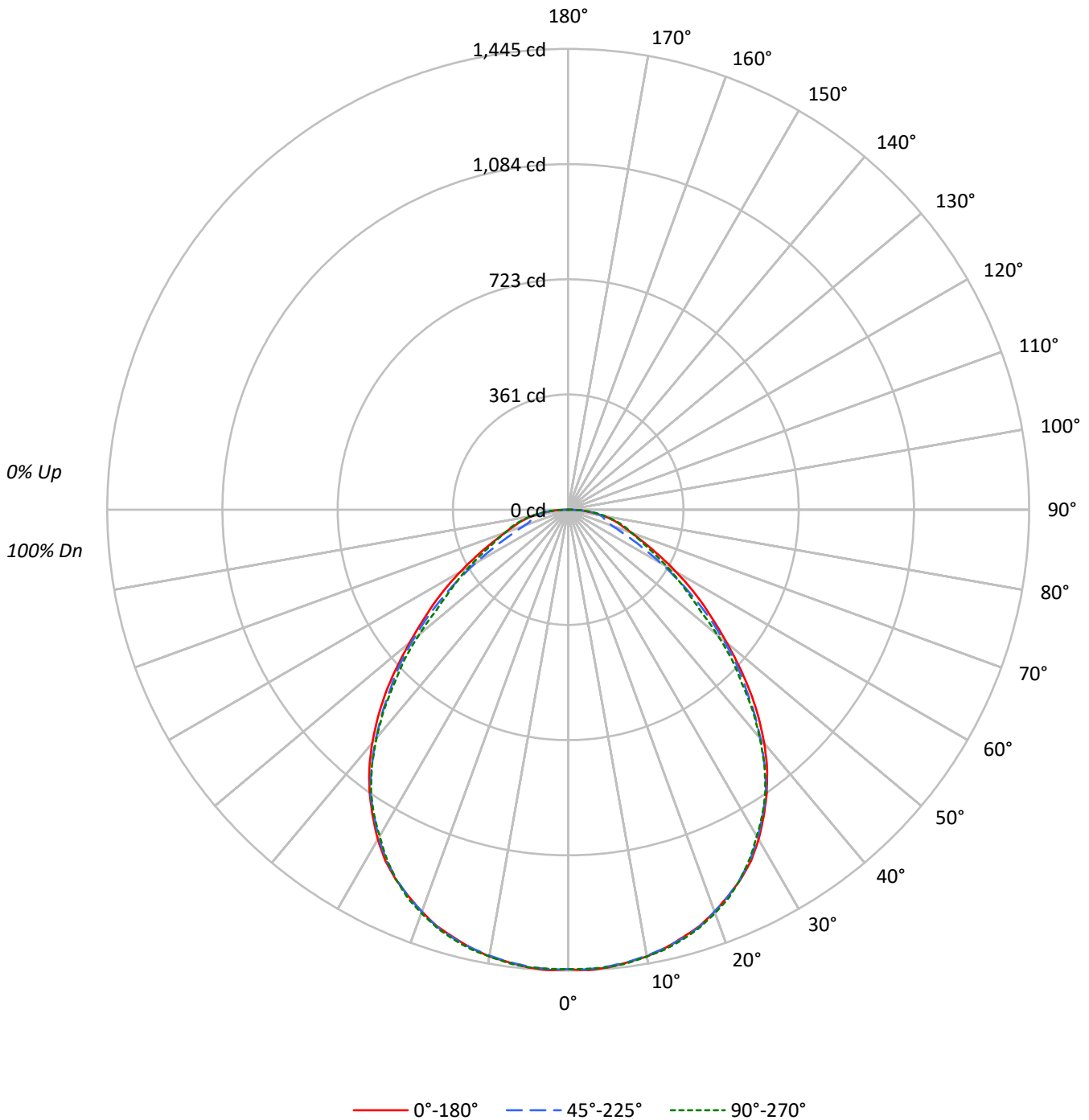
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1939	1939	1939
5°	1946	1942	1945
10°	1943	1940	1944
15°	1934	1937	1942
20°	1921	1921	1928
25°	1899	1895	1897
30°	1854	1845	1836
35°	1781	1776	1770
40°	1678	1647	1640
45°	1535	1493	1466
50°	1357	1330	1278
55°	1207	1125	1081
60°	1051	900	965
65°	907	698	854
70°	828	571	826
75°	834	615	878
80°	869	801	925
85°	906	953	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	4.1
10°-20°	392.1	11.9
20°-30°	586.9	17.8
30°-40°	670.6	20.3
40°-50°	606.3	18.4
50°-60°	436.2	13.2
60°-70°	252.9	7.7
70°-80°	150.0	4.5
80°-90°	66.4	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°	1115.6	33.8
0°-40°	1786.2	54.2
0°-60°	2828.7	85.8
0°-90°	3298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1441	1438	1438	1436	1440	137
15°	1388	1391	1391	1389	1394	392
25°	1279	1278	1276	1274	1278	588
35°	1085	1079	1082	1068	1077	676
45°	807	793	785	777	770	620
55°	514	505	480	467	461	460
65°	285	253	219	245	268	288
75°	160	134	118	146	169	170
85°	59	63	62	71	66	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.1	1441.1	1441.1	1441.1	1441.1
2.5°	1445.2	1440.1	1442.7	1441.1	1440.6
5°	1440.6	1438.5	1437.5	1435.5	1440.1
7.5°	1431.3	1429.8	1430.3	1430.8	1433.9
10°	1422.1	1419.5	1420.0	1421.0	1422.6
12.5°	1407.7	1406.1	1406.6	1407.7	1411.3
15°	1388.1	1390.7	1390.7	1389.1	1394.3
17.5°	1368.6	1368.1	1370.6	1366.0	1373.2
20°	1341.3	1341.8	1341.3	1341.8	1346.4
22.5°	1310.4	1313.0	1311.5	1311.5	1316.6
25°	1279.0	1277.5	1276.5	1273.9	1277.5
27.5°	1241.5	1238.4	1235.8	1230.7	1233.3
30°	1193.6	1194.2	1187.5	1182.8	1181.8
32.5°	1140.1	1140.1	1134.0	1130.4	1133.4
35°	1084.6	1079.4	1081.5	1068.1	1077.4
37.5°	1024.4	1016.1	1011.5	1006.9	1010.0
40°	955.4	944.6	937.9	928.7	933.8
42.5°	882.9	869.5	861.3	854.6	856.6
45°	806.7	792.8	784.6	777.4	770.2
47.5°	726.5	717.7	713.6	704.3	696.1
50°	648.3	645.2	635.4	627.7	610.7
52.5°	576.8	574.2	558.7	545.9	524.3
55°	514.5	504.7	479.5	467.2	461.0
57.5°	451.2	435.3	404.9	403.4	407.5
60°	390.5	371.0	334.4	342.7	358.6
62.5°	335.5	306.1	271.1	290.7	309.7
65°	285.0	253.1	219.2	244.9	268.1
67.5°	243.4	211.5	176.5	210.9	237.7
70°	210.4	178.0	145.1	184.7	209.9
72.5°	183.2	153.8	126.6	164.1	190.4
75°	160.5	134.3	118.3	146.1	168.8
77.5°	137.9	116.8	113.2	130.2	144.1
80°	112.2	102.4	103.4	114.2	119.4
82.5°	83.9	84.4	87.0	95.7	93.6
85°	58.7	63.3	61.7	71.0	66.4
87.5°	32.4	35.5	33.4	40.6	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)