

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: P293801

Luminaire Tested: **24GR-LD5-38-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293801
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-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

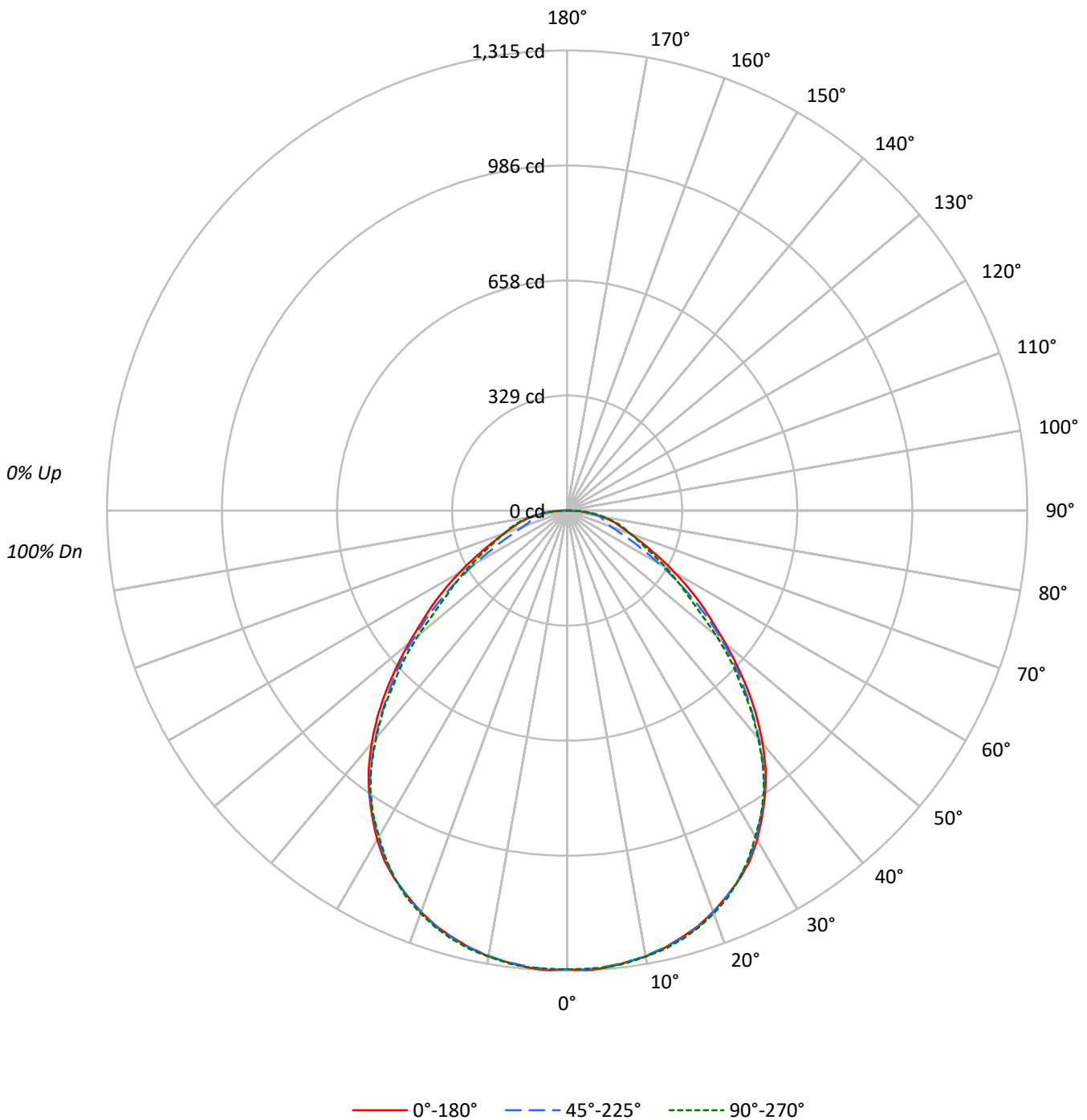
Input Watts (W): 25.972947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1764	1764	1764
5°	1770	1766	1769
10°	1767	1765	1768
15°	1759	1762	1767
20°	1747	1747	1754
25°	1727	1724	1725
30°	1687	1678	1670
35°	1621	1616	1610
40°	1526	1499	1492
45°	1396	1358	1333
50°	1234	1210	1163
55°	1098	1023	984
60°	956	819	878
65°	826	635	776
70°	753	519	751
75°	759	559	798
80°	790	729	841
85°	824	868	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	4.1
10°-20°	356.6	11.9
20°-30°	533.8	17.8
30°-40°	610.0	20.3
40°-50°	551.5	18.4
50°-60°	396.8	13.2
60°-70°	230.0	7.7
70°-80°	136.4	4.5
80°-90°	60.4	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°	1014.8	33.8
0°-40°	1624.8	54.2
0°-60°	2573.1	85.8
0°-90°	3000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1310	1309	1308	1306	1310	124
15°	1263	1265	1265	1264	1268	356
25°	1164	1162	1161	1159	1162	535
35°	987	982	984	972	980	615
45°	734	721	714	707	701	564
55°	468	459	436	425	419	419
65°	259	230	199	223	244	262
75°	146	122	108	133	154	154
85°	53	58	56	65	60	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1314.6	1310.0	1312.3	1310.9	1310.4
5°	1310.4	1308.6	1307.6	1305.7	1310.0
7.5°	1302.0	1300.6	1301.1	1301.5	1304.3
10°	1293.6	1291.2	1291.7	1292.6	1294.0
12.5°	1280.5	1279.1	1279.5	1280.5	1283.8
15°	1262.7	1265.0	1265.0	1263.6	1268.3
17.5°	1244.9	1244.4	1246.8	1242.6	1249.1
20°	1220.1	1220.6	1220.1	1220.6	1224.8
22.5°	1192.0	1194.4	1193.0	1193.0	1197.6
25°	1163.5	1162.1	1161.1	1158.8	1162.1
27.5°	1129.3	1126.5	1124.2	1119.5	1121.8
30°	1085.8	1086.3	1080.2	1076.0	1075.0
32.5°	1037.1	1037.1	1031.5	1028.2	1031.0
35°	986.6	981.9	983.8	971.6	980.0
37.5°	931.8	924.3	920.1	915.9	918.7
40°	869.1	859.3	853.2	844.8	849.4
42.5°	803.1	790.9	783.4	777.4	779.2
45°	733.8	721.2	713.7	707.2	700.6
47.5°	660.8	652.9	649.1	640.7	633.2
50°	589.7	586.9	578.0	571.0	555.5
52.5°	524.6	522.3	508.3	496.6	476.9
55°	468.0	459.1	436.2	425.0	419.3
57.5°	410.4	395.9	368.3	366.9	370.7
60°	355.2	337.4	304.2	311.7	326.2
62.5°	305.1	278.5	246.6	264.4	281.7
65°	259.3	230.3	199.4	222.8	243.8
67.5°	221.4	192.4	160.5	191.9	216.2
70°	191.4	161.9	132.0	168.0	190.9
72.5°	166.6	139.9	115.1	149.3	173.2
75°	146.0	122.2	107.6	132.9	153.5
77.5°	125.4	106.2	103.0	118.4	131.0
80°	102.0	93.1	94.1	103.9	108.6
82.5°	76.3	76.8	79.1	87.0	85.2
85°	53.4	57.6	56.2	64.6	60.4
87.5°	29.5	32.3	30.4	37.0	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)