

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: P293882

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293882
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-LD5-56-A125-UNV-L92765-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: 4600.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

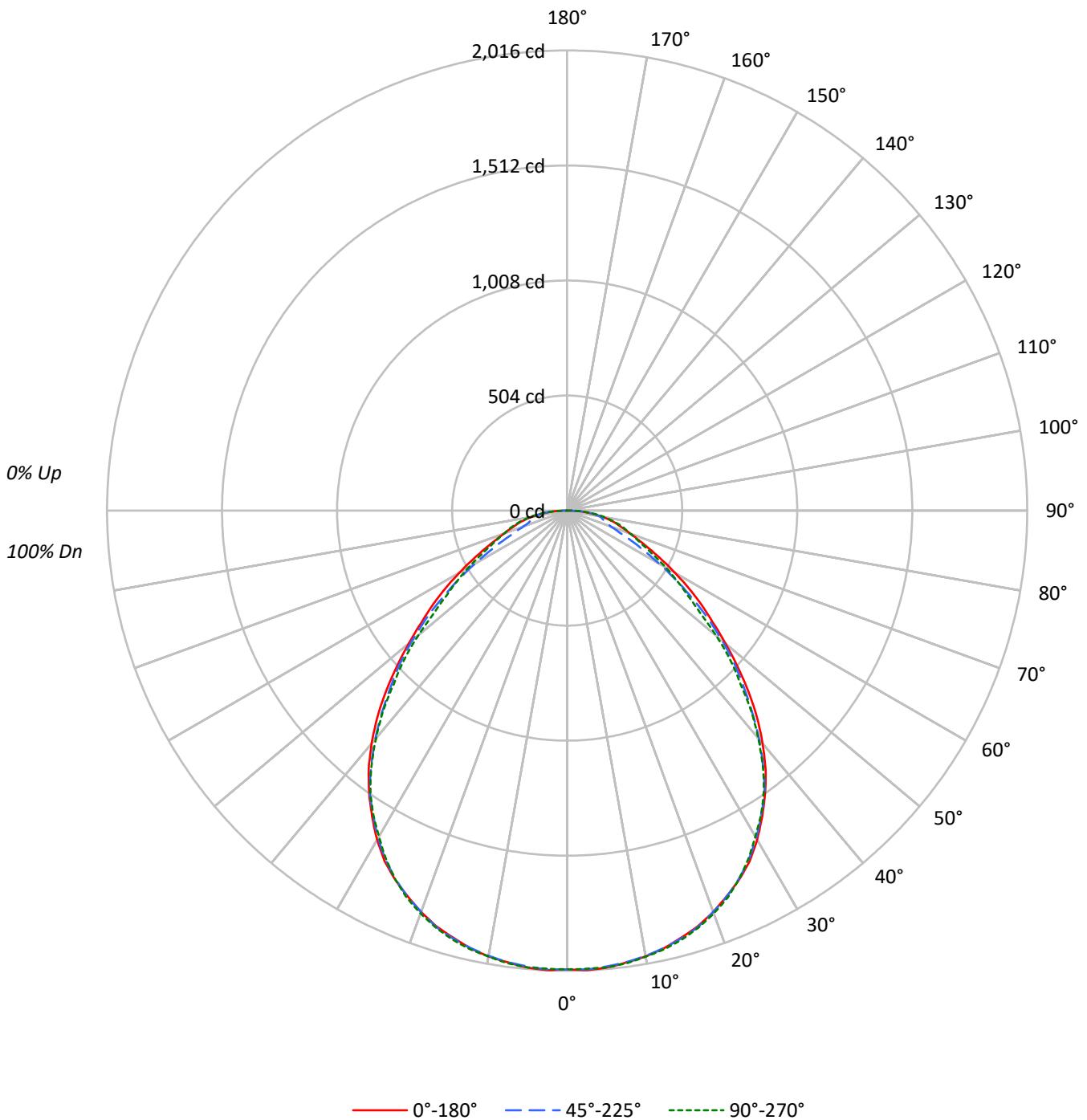
Input Watts (W): 38.595
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2704	2704	2704
5°	2714	2708	2713
10°	2710	2706	2711
15°	2697	2702	2709
20°	2679	2679	2689
25°	2648	2643	2645
30°	2587	2573	2561
35°	2485	2478	2468
40°	2341	2298	2288
45°	2141	2082	2044
50°	1893	1855	1783
55°	1683	1569	1508
60°	1466	1255	1346
65°	1266	973	1190
70°	1155	796	1152
75°	1164	858	1224
80°	1212	1117	1290
85°	1263	1329	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	4.1
10°-20°	546.8	11.9
20°-30°	818.5	17.8
30°-40°	935.3	20.3
40°-50°	845.6	18.4
50°-60°	608.4	13.2
60°-70°	352.7	7.7
70°-80°	209.2	4.5
80°-90°	92.7	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°	1556.1	33.8
0°-40°	2491.4	54.2
0°-60°	3945.4	85.8
0°-90°	4600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2009	2006	2005	2002	2009	191
15°	1936	1940	1940	1938	1945	547
25°	1784	1782	1780	1777	1782	820
35°	1513	1506	1508	1490	1503	943
45°	1125	1106	1094	1084	1074	864
55°	718	704	669	652	643	642
65°	398	353	306	342	374	401
75°	224	187	165	204	235	237
85°	82	88	86	99	93	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.0	2010.0	2010.0	2010.0	2010.0
2.5°	2015.8	2008.6	2012.2	2010.0	2009.3
5°	2009.3	2006.5	2005.0	2002.1	2008.6
7.5°	1996.4	1994.3	1995.0	1995.7	2000.0
10°	1983.5	1979.9	1980.6	1982.1	1984.2
12.5°	1963.4	1961.2	1962.0	1963.4	1968.4
15°	1936.1	1939.7	1939.7	1937.6	1944.7
17.5°	1908.9	1908.1	1911.7	1905.3	1915.3
20°	1870.8	1871.5	1870.8	1871.5	1878.0
22.5°	1827.8	1831.4	1829.2	1829.2	1836.4
25°	1784.0	1781.8	1780.4	1776.8	1781.8
27.5°	1731.6	1727.3	1723.7	1716.5	1720.1
30°	1664.9	1665.6	1656.3	1649.8	1648.4
32.5°	1590.2	1590.2	1581.6	1576.6	1580.9
35°	1512.7	1505.6	1508.4	1489.8	1502.7
37.5°	1428.8	1417.3	1410.8	1404.4	1408.7
40°	1332.6	1317.5	1308.2	1295.3	1302.5
42.5°	1231.4	1212.8	1201.3	1192.0	1194.8
45°	1125.2	1105.8	1094.4	1084.3	1074.3
47.5°	1013.3	1001.1	995.3	982.4	970.9
50°	904.2	899.9	886.3	875.5	851.8
52.5°	804.4	800.9	779.3	761.4	731.2
55°	717.6	704.0	668.8	651.6	643.0
57.5°	629.3	607.1	564.8	562.6	568.4
60°	544.7	517.4	466.4	477.9	500.2
62.5°	467.9	427.0	378.2	405.5	432.0
65°	397.6	353.1	305.7	341.6	373.9
67.5°	339.4	294.9	246.1	294.2	331.5
70°	293.5	248.3	202.4	257.6	292.8
72.5°	255.5	214.6	176.5	228.9	265.5
75°	223.9	187.3	165.1	203.8	235.4
77.5°	192.3	162.9	157.9	181.6	200.9
80°	156.4	142.8	144.2	159.3	166.5
82.5°	117.0	117.7	121.3	133.5	130.6
85°	81.8	88.3	86.1	99.0	92.6
87.5°	45.2	49.5	46.6	56.7	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)