

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: P293885

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293885
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5115.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

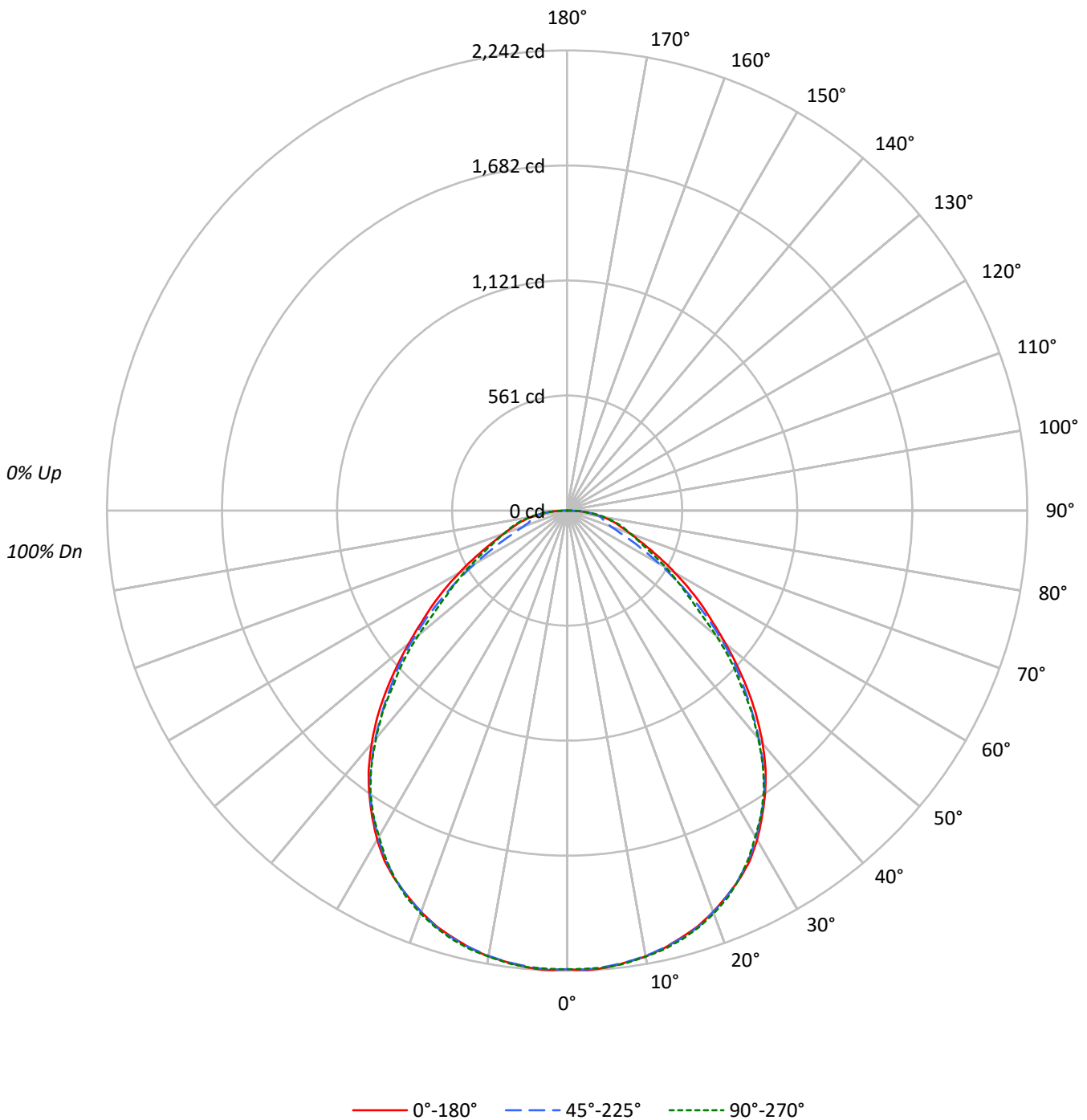
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3007	3007	3007
5°	3018	3011	3017
10°	3013	3009	3014
15°	2999	3004	3012
20°	2979	2979	2990
25°	2945	2939	2941
30°	2876	2861	2848
35°	2763	2755	2745
40°	2603	2555	2544
45°	2381	2316	2273
50°	2105	2063	1983
55°	1872	1745	1677
60°	1630	1396	1497
65°	1408	1082	1323
70°	1284	885	1281
75°	1294	954	1360
80°	1348	1243	1434
85°	1405	1479	1589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	4.1
10°-20°	608.1	11.9
20°-30°	910.2	17.8
30°-40°	1040.1	20.3
40°-50°	940.3	18.4
50°-60°	676.5	13.2
60°-70°	392.2	7.7
70°-80°	232.6	4.5
80°-90°	103.0	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°	1730.3	33.8
0°-40°	2770.3	54.2
0°-60°	4387.1	85.8
0°-90°	5115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2235	2235	2235	2235	2235	
5°	2234	2231	2230	2226	2234	212
15°	2153	2157	2157	2154	2162	608
25°	1984	1981	1980	1976	1981	912
35°	1682	1674	1677	1657	1671	1049
45°	1251	1230	1217	1206	1194	961
55°	798	783	744	724	715	714
65°	442	393	340	380	416	446
75°	249	208	184	227	262	263
85°	91	98	96	110	103	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2235.1	2235.1	2235.1	2235.1	2235.1
2.5°	2241.5	2233.5	2237.5	2235.1	2234.3
5°	2234.3	2231.1	2229.5	2226.3	2233.5
7.5°	2219.9	2217.5	2218.3	2219.1	2223.9
10°	2205.6	2201.6	2202.4	2204.0	2206.4
12.5°	2183.2	2180.8	2181.6	2183.2	2188.8
15°	2152.9	2156.9	2156.9	2154.5	2162.5
17.5°	2122.6	2121.8	2125.8	2118.6	2129.7
20°	2080.3	2081.1	2080.3	2081.1	2088.3
22.5°	2032.4	2036.4	2034.0	2034.0	2042.0
25°	1983.7	1981.3	1979.7	1975.7	1981.3
27.5°	1925.5	1920.7	1916.7	1908.7	1912.7
30°	1851.3	1852.1	1841.7	1834.5	1832.9
32.5°	1768.3	1768.3	1758.7	1753.1	1757.9
35°	1682.1	1674.1	1677.3	1656.6	1670.9
37.5°	1588.7	1576.0	1568.8	1561.6	1566.4
40°	1481.8	1465.0	1454.7	1440.3	1448.3
42.5°	1369.3	1348.5	1335.8	1325.4	1328.6
45°	1251.2	1229.7	1216.9	1205.7	1194.5
47.5°	1126.7	1113.1	1106.8	1092.4	1079.6
50°	1005.4	1000.6	985.5	973.5	947.2
52.5°	894.5	890.5	866.6	846.6	813.1
55°	798.0	782.8	743.7	724.5	715.0
57.5°	699.8	675.1	628.0	625.6	632.0
60°	605.6	575.3	518.7	531.4	556.2
62.5°	520.3	474.8	420.5	450.8	480.4
65°	442.1	392.6	339.9	379.8	415.7
67.5°	377.4	328.0	273.7	327.2	368.7
70°	326.4	276.1	225.0	286.5	325.6
72.5°	284.1	238.6	196.3	254.5	295.2
75°	249.0	208.3	183.5	226.6	261.7
77.5°	213.9	181.1	175.6	201.9	223.4
80°	174.0	158.8	160.4	177.1	185.1
82.5°	130.1	130.9	134.9	148.4	145.2
85°	91.0	98.1	95.8	110.1	102.9
87.5°	50.3	55.1	51.9	63.0	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)