

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: P293819

Luminaire Tested: **24GR-LD5-56-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293819
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-L93050-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: 5273.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

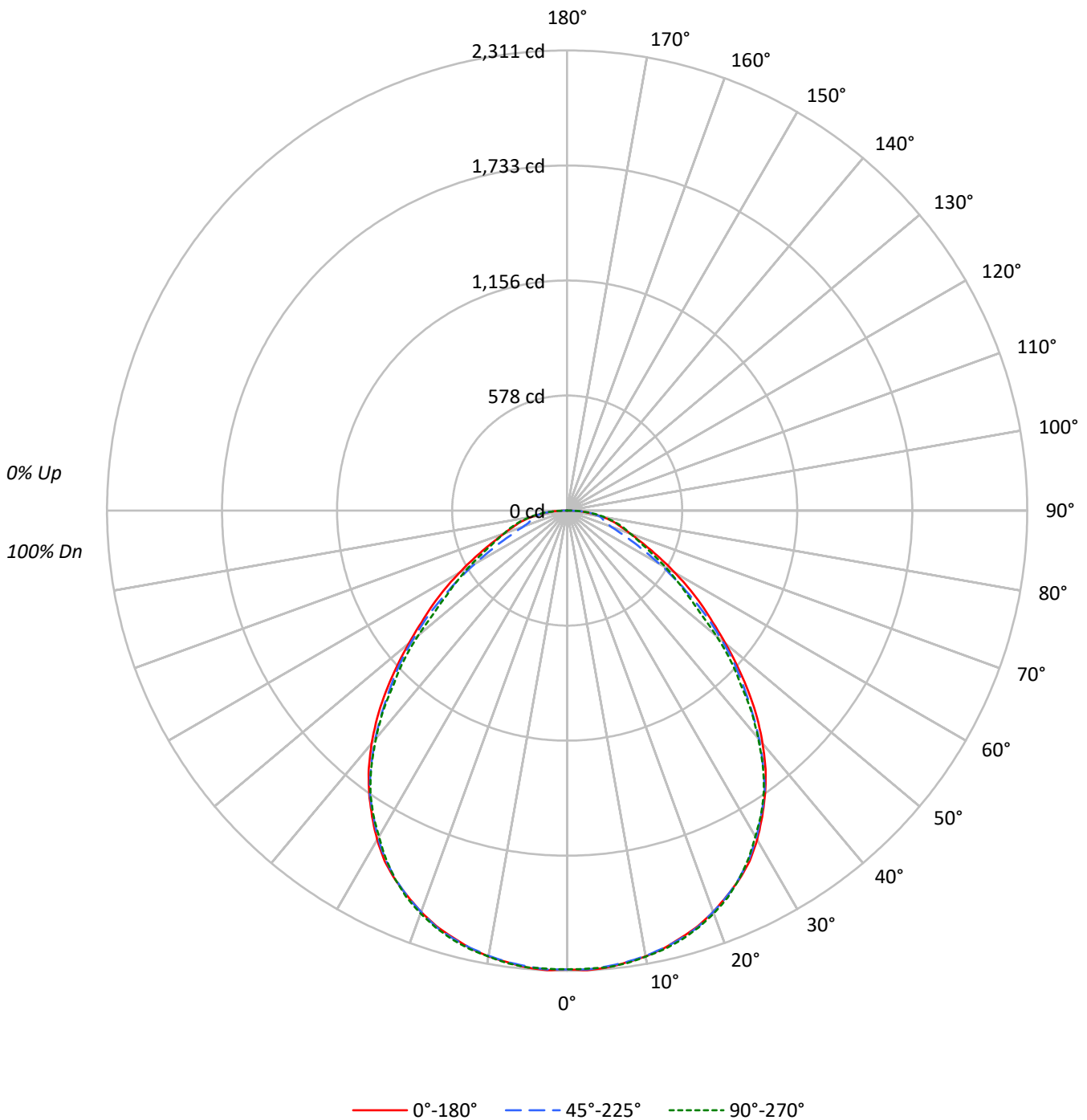
Input Watts (W): 40.603614
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3100	3100	3100
5°	3111	3104	3110
10°	3106	3102	3108
15°	3092	3097	3105
20°	3071	3071	3082
25°	3036	3030	3032
30°	2965	2950	2936
35°	2848	2840	2829
40°	2683	2634	2622
45°	2454	2387	2343
50°	2170	2126	2044
55°	1930	1799	1729
60°	1680	1439	1543
65°	1451	1116	1365
70°	1323	913	1320
75°	1334	984	1403
80°	1389	1281	1478
85°	1448	1524	1638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	4.1
10°-20°	626.8	11.9
20°-30°	938.3	17.8
30°-40°	1072.2	20.3
40°-50°	969.3	18.4
50°-60°	697.4	13.2
60°-70°	404.3	7.7
70°-80°	239.8	4.5
80°-90°	106.2	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°	1783.7	33.8
0°-40°	2855.9	54.2
0°-60°	4522.6	85.8
0°-90°	5273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2304	2304	2304	2304	2304	
5°	2303	2300	2298	2295	2302	219
15°	2219	2224	2224	2221	2229	627
25°	2045	2042	2041	2037	2042	940
35°	1734	1726	1729	1708	1722	1081
45°	1290	1268	1254	1243	1231	991
55°	823	807	767	747	737	736
65°	456	405	350	392	429	460
75°	257	215	189	234	270	271
85°	94	101	99	114	106	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2304.1	2304.1	2304.1	2304.1	2304.1
2.5°	2310.7	2302.5	2306.6	2304.1	2303.3
5°	2303.3	2300.0	2298.4	2295.1	2302.5
7.5°	2288.5	2286.0	2286.8	2287.7	2292.6
10°	2273.7	2269.6	2270.4	2272.0	2274.5
12.5°	2250.6	2248.2	2249.0	2250.6	2256.4
15°	2219.4	2223.5	2223.5	2221.0	2229.3
17.5°	2188.1	2187.3	2191.4	2184.0	2195.5
20°	2144.5	2145.4	2144.5	2145.4	2152.8
22.5°	2095.2	2099.3	2096.8	2096.8	2105.0
25°	2045.0	2042.5	2040.9	2036.8	2042.5
27.5°	1984.9	1980.0	1975.9	1967.7	1971.8
30°	1908.4	1909.3	1898.6	1891.2	1889.5
32.5°	1822.9	1822.9	1813.0	1807.3	1812.2
35°	1734.1	1725.8	1729.1	1707.7	1722.5
37.5°	1637.8	1624.6	1617.2	1609.8	1614.8
40°	1527.6	1510.3	1499.6	1484.8	1493.0
42.5°	1411.6	1390.2	1377.0	1366.3	1369.6
45°	1289.8	1267.6	1254.5	1243.0	1231.4
47.5°	1161.5	1147.5	1141.0	1126.1	1113.0
50°	1036.5	1031.5	1015.9	1003.6	976.4
52.5°	922.1	918.0	893.3	872.8	838.2
55°	822.6	807.0	766.7	746.9	737.1
57.5°	721.4	695.9	647.4	644.9	651.5
60°	624.4	593.1	534.7	547.9	573.4
62.5°	536.3	489.5	433.5	464.8	495.2
65°	455.7	404.7	350.4	391.6	428.6
67.5°	389.1	338.1	282.2	337.3	380.0
70°	336.4	284.6	232.0	295.3	335.6
72.5°	292.8	246.0	202.4	262.4	304.4
75°	256.7	214.7	189.2	233.6	269.8
77.5°	220.5	186.7	181.0	208.1	230.3
80°	179.3	163.7	165.3	182.6	190.8
82.5°	134.1	134.9	139.0	153.0	149.7
85°	93.8	101.2	98.7	113.5	106.1
87.5°	51.8	56.8	53.5	65.0	58.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)