

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: P293889

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293889
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5358.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

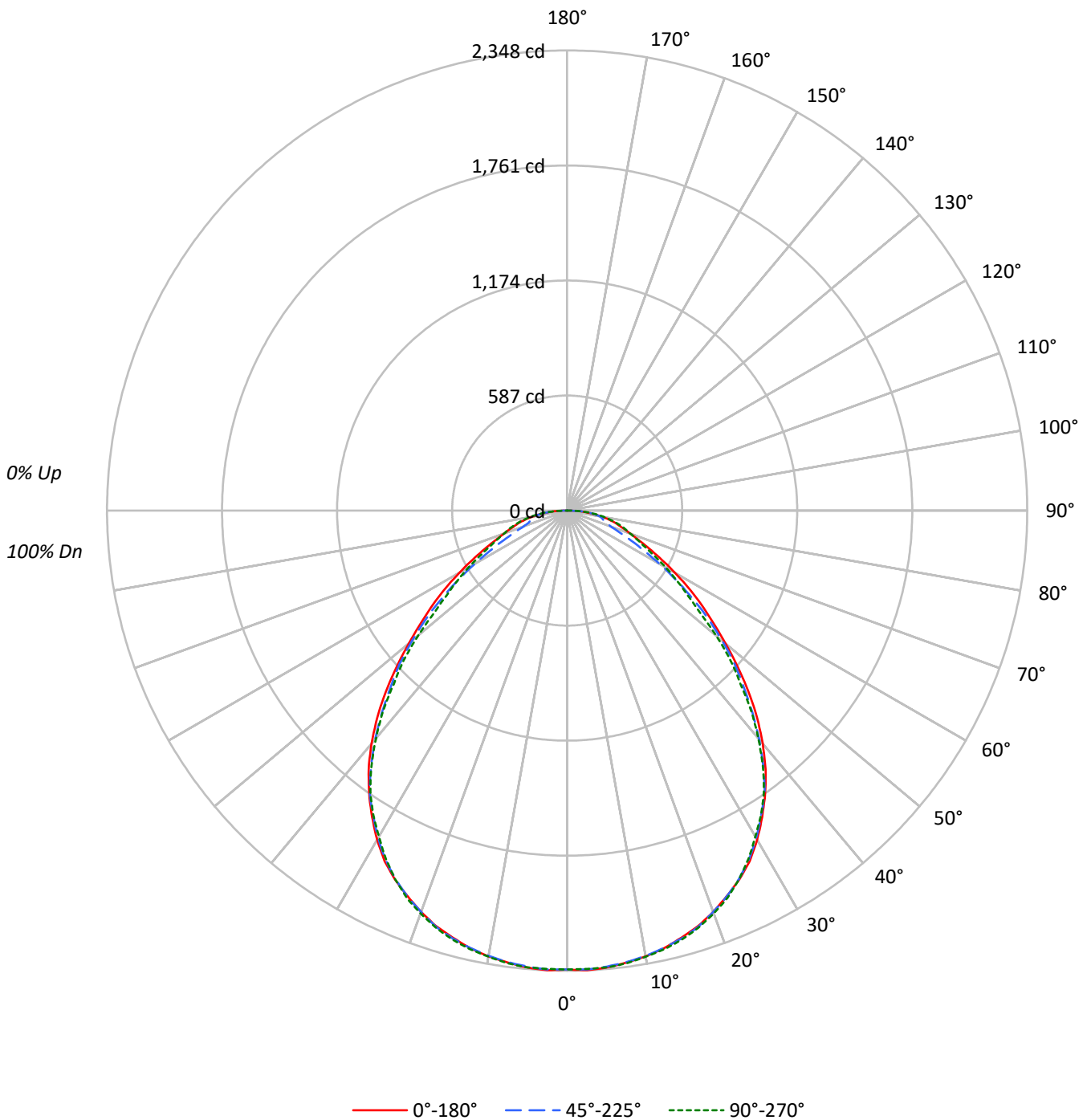
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3150	3150	3150
5°	3161	3154	3160
10°	3156	3152	3158
15°	3141	3147	3155
20°	3120	3120	3132
25°	3085	3079	3081
30°	3013	2997	2983
35°	2894	2886	2875
40°	2726	2676	2665
45°	2494	2426	2381
50°	2205	2161	2077
55°	1961	1827	1757
60°	1707	1462	1568
65°	1474	1134	1387
70°	1345	927	1341
75°	1356	999	1425
80°	1412	1302	1502
85°	1471	1548	1664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	4.1
10°-20°	636.9	11.9
20°-30°	953.4	17.8
30°-40°	1089.5	20.3
40°-50°	985.0	18.4
50°-60°	708.6	13.2
60°-70°	410.8	7.7
70°-80°	243.7	4.5
80°-90°	107.9	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°	1812.5	33.8
0°-40°	2901.9	54.2
0°-60°	4595.5	85.8
0°-90°	5358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2340	2337	2335	2332	2340	222
15°	2255	2259	2259	2257	2265	637
25°	2078	2076	2074	2070	2076	955
35°	1762	1754	1757	1735	1750	1098
45°	1311	1288	1275	1263	1251	1007
55°	836	820	779	759	749	748
65°	463	411	356	398	436	468
75°	261	218	192	237	274	276
85°	95	103	100	115	108	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.3	2341.3	2341.3	2341.3	2341.3
2.5°	2347.9	2339.6	2343.8	2341.3	2340.4
5°	2340.4	2337.1	2335.4	2332.1	2339.6
7.5°	2325.4	2322.9	2323.7	2324.5	2329.6
10°	2310.3	2306.2	2307.0	2308.7	2311.2
12.5°	2286.9	2284.4	2285.3	2286.9	2292.8
15°	2255.2	2259.3	2259.3	2256.8	2265.2
17.5°	2223.4	2222.6	2226.7	2219.2	2230.9
20°	2179.1	2179.9	2179.1	2179.9	2187.5
22.5°	2128.9	2133.1	2130.6	2130.6	2139.0
25°	2078.0	2075.5	2073.8	2069.6	2075.5
27.5°	2016.9	2011.9	2007.7	1999.4	2003.6
30°	1939.2	1940.0	1929.2	1921.7	1920.0
32.5°	1852.3	1852.3	1842.2	1836.4	1841.4
35°	1762.0	1753.6	1757.0	1735.3	1750.3
37.5°	1664.2	1650.8	1643.3	1635.8	1640.8
40°	1552.2	1534.6	1523.8	1508.7	1517.1
42.5°	1434.3	1412.6	1399.2	1388.4	1391.7
45°	1310.6	1288.1	1274.7	1263.0	1251.3
47.5°	1180.2	1166.0	1159.3	1144.3	1130.9
50°	1053.2	1048.2	1032.3	1019.8	992.2
52.5°	937.0	932.8	907.8	886.9	851.7
55°	835.9	820.0	779.0	759.0	748.9
57.5°	733.1	707.1	657.8	655.3	662.0
60°	634.4	602.7	543.3	556.7	582.6
62.5°	545.0	497.3	440.5	472.3	503.2
65°	463.1	411.2	356.1	397.9	435.5
67.5°	395.4	343.5	286.7	342.7	386.2
70°	341.9	289.2	235.7	300.1	341.0
72.5°	297.6	249.9	205.6	266.6	309.3
75°	260.8	218.2	192.2	237.4	274.2
77.5°	224.0	189.7	183.9	211.5	234.0
80°	182.2	166.3	168.0	185.6	193.9
82.5°	136.2	137.1	141.3	155.5	152.1
85°	95.3	102.8	100.3	115.3	107.8
87.5°	52.7	57.7	54.3	66.0	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)