

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: P475766

Luminaire Tested: **24GR-LD5-56-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475766
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5516.9 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

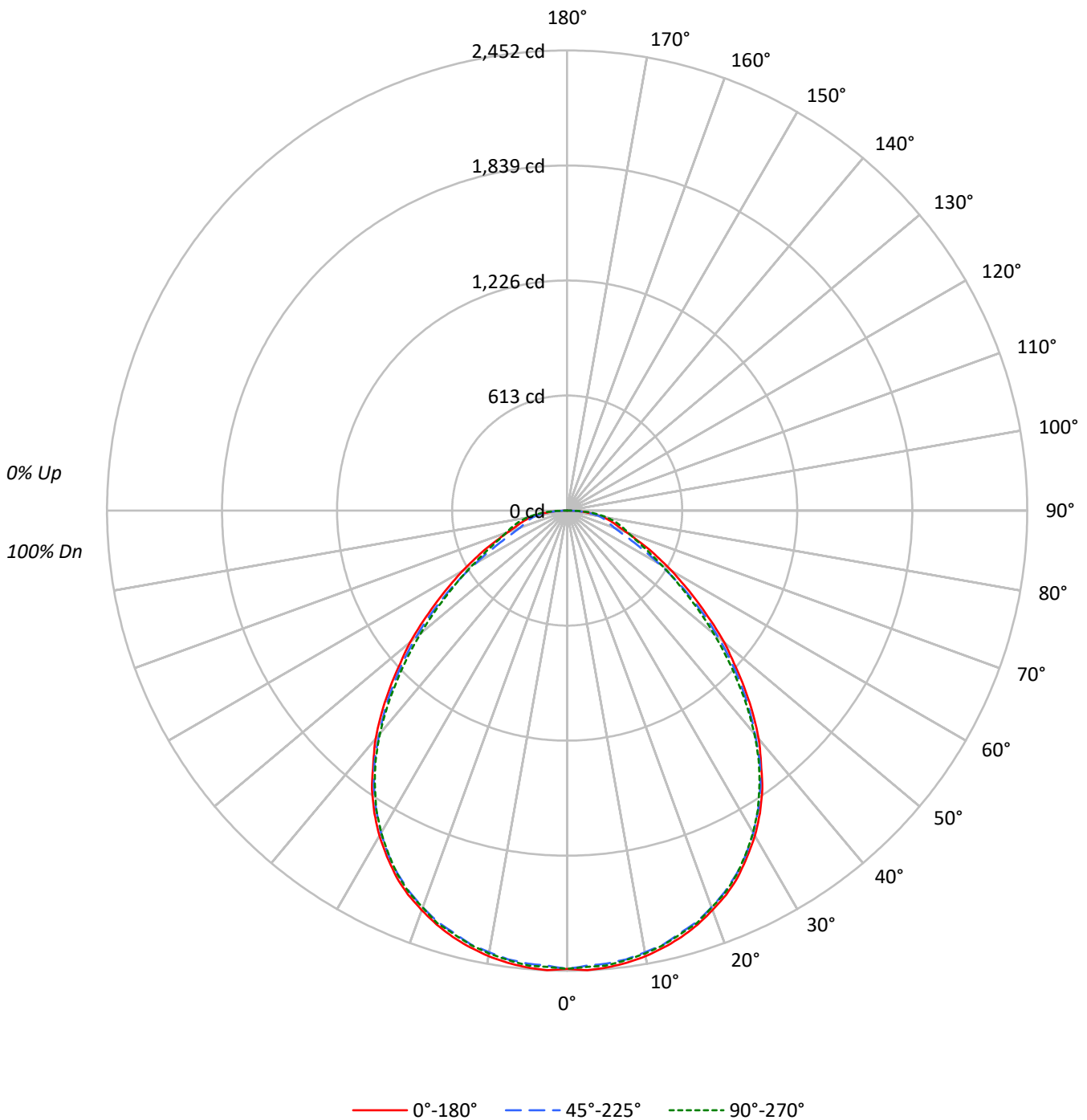
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	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	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3285	3285	3285
5°	3301	3272	3286
10°	3294	3265	3274
15°	3277	3245	3253
20°	3244	3221	3223
25°	3197	3171	3176
30°	3109	3081	3079
35°	2978	2949	2934
40°	2790	2736	2724
45°	2540	2489	2441
50°	2287	2206	2134
55°	1985	1877	1821
60°	1733	1513	1566
65°	1500	1202	1392
70°	1323	1054	1359
75°	1328	1146	1487
80°	1454	1361	1683
85°	1533	1484	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	4.2
10°-20°	659.4	12.0
20°-30°	983.1	17.8
30°-40°	1117.6	20.3
40°-50°	1007.2	18.3
50°-60°	725.5	13.2
60°-70°	422.0	7.6
70°-80°	258.2	4.7
80°-90°	113.0	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°	1873.3	34.0
0°-40°	2990.9	54.2
0°-60°	4723.7	85.6
0°-90°	5516.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5516.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2444	2427	2423	2428	2433	232
15°	2353	2340	2330	2334	2335	663
25°	2154	2140	2136	2133	2139	989
35°	1813	1800	1795	1785	1786	1128
45°	1335	1320	1308	1288	1283	1030
55°	846	826	800	792	776	763
65°	471	424	378	407	437	471
75°	255	231	220	251	286	272
85°	99	98	96	130	125	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.8	2441.8	2441.8	2441.8	2441.8
2.5°	2451.6	2438.5	2427.6	2428.2	2433.6
5°	2444.0	2427.1	2422.7	2427.6	2433.1
7.5°	2430.3	2414.5	2411.8	2409.0	2415.6
10°	2410.7	2399.8	2389.9	2392.7	2396.5
12.5°	2384.5	2375.2	2368.1	2362.7	2370.8
15°	2352.8	2339.7	2329.9	2333.7	2335.4
17.5°	2313.0	2300.4	2297.7	2295.5	2303.7
20°	2265.5	2257.9	2249.7	2251.9	2250.8
22.5°	2215.3	2203.8	2197.3	2194.0	2202.7
25°	2153.6	2140.5	2136.2	2132.9	2139.4
27.5°	2078.3	2071.2	2065.2	2060.8	2061.4
30°	2000.8	1993.7	1982.8	1979.5	1981.7
32.5°	1911.8	1903.7	1893.8	1884.0	1891.1
35°	1813.1	1800.5	1795.1	1784.7	1786.3
37.5°	1696.3	1690.8	1685.9	1672.3	1676.6
40°	1588.7	1574.0	1557.6	1549.5	1551.1
42.5°	1464.3	1449.0	1435.9	1424.5	1419.0
45°	1335.0	1319.7	1308.2	1288.0	1283.1
47.5°	1206.2	1192.0	1179.4	1163.6	1149.4
50°	1092.6	1066.4	1053.9	1037.5	1019.5
52.5°	964.9	949.6	925.1	911.4	895.1
55°	846.0	825.8	800.1	791.9	776.1
57.5°	739.0	717.1	679.5	676.2	675.7
60°	644.0	614.5	562.1	566.0	581.8
62.5°	551.8	509.8	462.3	479.2	502.7
65°	471.0	423.5	377.7	407.1	437.2
67.5°	393.5	350.9	312.2	351.5	383.1
70°	336.2	300.7	268.0	310.0	345.5
72.5°	288.2	260.9	239.6	277.8	316.0
75°	255.4	231.4	220.5	251.1	286.0
77.5°	224.9	203.6	200.3	227.6	253.2
80°	187.7	173.0	175.7	203.6	217.2
82.5°	143.0	138.6	139.2	174.1	176.8
85°	99.3	98.2	96.1	130.4	125.0
87.5°	50.2	51.3	50.8	74.2	66.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)