

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: P293692

Luminaire Tested: **24GR-LD5-56-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293692
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-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5928.0 lumens
Efficiency: N/A
Efficacy: 148.6 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

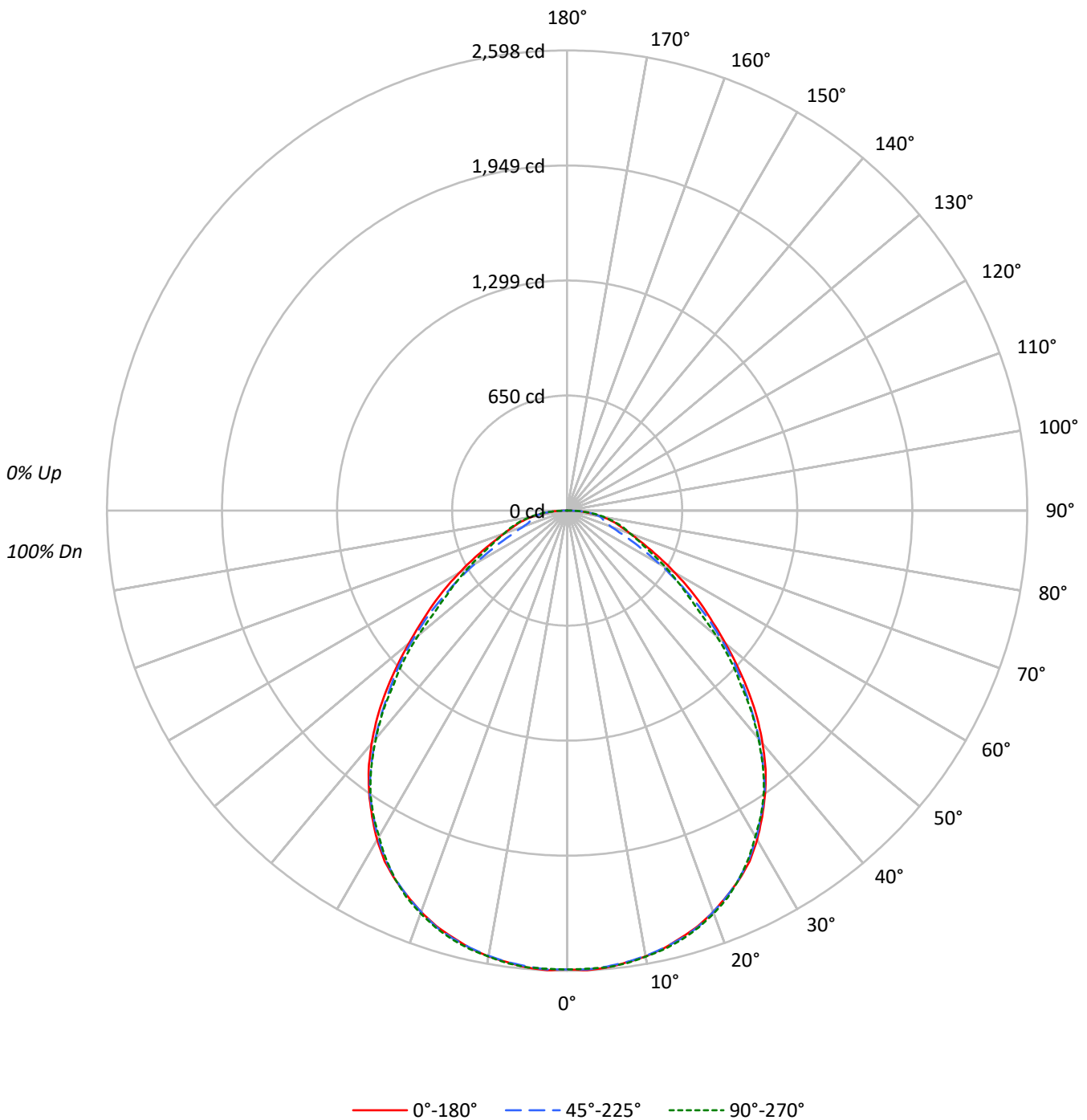
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3485	3485	3485
5°	3497	3490	3496
10°	3492	3487	3493
15°	3476	3482	3491
20°	3452	3452	3465
25°	3413	3406	3409
30°	3333	3316	3300
35°	3202	3193	3181
40°	3016	2961	2948
45°	2759	2684	2634
50°	2439	2391	2298
55°	2169	2022	1944
60°	1889	1618	1735
65°	1631	1254	1534
70°	1488	1026	1484
75°	1500	1106	1577
80°	1562	1440	1663
85°	1627	1714	1842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	4.1
10°-20°	704.7	11.9
20°-30°	1054.9	17.8
30°-40°	1205.4	20.3
40°-50°	1089.8	18.4
50°-60°	784.0	13.2
60°-70°	454.5	7.7
70°-80°	269.6	4.5
80°-90°	119.4	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°	2005.3	33.8
0°-40°	3210.6	54.2
0°-60°	5084.4	85.8
0°-90°	5928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2589	2586	2584	2580	2588	246
15°	2495	2500	2500	2497	2506	704
25°	2299	2296	2294	2290	2296	1057
35°	1950	1940	1944	1920	1936	1215
45°	1450	1425	1410	1397	1384	1114
55°	925	907	862	840	829	827
65°	512	455	394	440	482	517
75°	288	241	213	263	303	305
85°	105	114	111	128	119	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2590.3	2590.3	2590.3	2590.3	2590.3
2.5°	2597.7	2588.5	2593.1	2590.3	2589.4
5°	2589.4	2585.7	2583.9	2580.2	2588.5
7.5°	2572.8	2570.0	2570.9	2571.8	2577.4
10°	2556.1	2551.5	2552.4	2554.3	2557.0
12.5°	2530.2	2527.4	2528.4	2530.2	2536.7
15°	2495.1	2499.7	2499.7	2496.9	2506.2
17.5°	2459.9	2459.0	2463.6	2455.3	2468.3
20°	2410.9	2411.8	2410.9	2411.8	2420.2
22.5°	2355.4	2360.1	2357.3	2357.3	2366.5
25°	2299.0	2296.2	2294.4	2289.8	2296.2
27.5°	2231.5	2226.0	2221.3	2212.1	2216.7
30°	2145.5	2146.4	2134.4	2126.1	2124.2
32.5°	2049.3	2049.3	2038.2	2031.8	2037.3
35°	1949.5	1940.2	1943.9	1919.9	1936.5
37.5°	1841.3	1826.5	1818.1	1809.8	1815.4
40°	1717.3	1697.9	1685.9	1669.2	1678.5
42.5°	1586.9	1562.9	1548.1	1536.1	1539.8
45°	1450.1	1425.1	1410.3	1397.4	1384.4
47.5°	1305.8	1290.1	1282.7	1266.0	1251.2
50°	1165.2	1159.7	1142.1	1128.2	1097.7
52.5°	1036.7	1032.1	1004.3	981.2	942.4
55°	924.8	907.2	861.9	839.7	828.6
57.5°	811.0	782.4	727.8	725.0	732.4
60°	701.9	666.8	601.1	615.9	644.6
62.5°	603.0	550.2	487.4	522.5	556.7
65°	512.3	455.0	394.0	440.2	481.8
67.5°	437.4	380.1	317.2	379.2	427.3
70°	378.2	320.0	260.8	332.0	377.3
72.5°	329.2	276.5	227.5	295.0	342.2
75°	288.5	241.4	212.7	262.6	303.3
77.5°	247.8	209.9	203.5	234.0	258.9
80°	201.6	184.0	185.9	205.3	214.6
82.5°	150.7	151.7	156.3	172.0	168.3
85°	105.4	113.7	111.0	127.6	119.3
87.5°	58.3	63.8	60.1	73.1	65.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)