

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: P293830

Luminaire Tested: **24GR-LD5-72-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293830
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-LD5-72-A125-UNV-L93050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6766.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

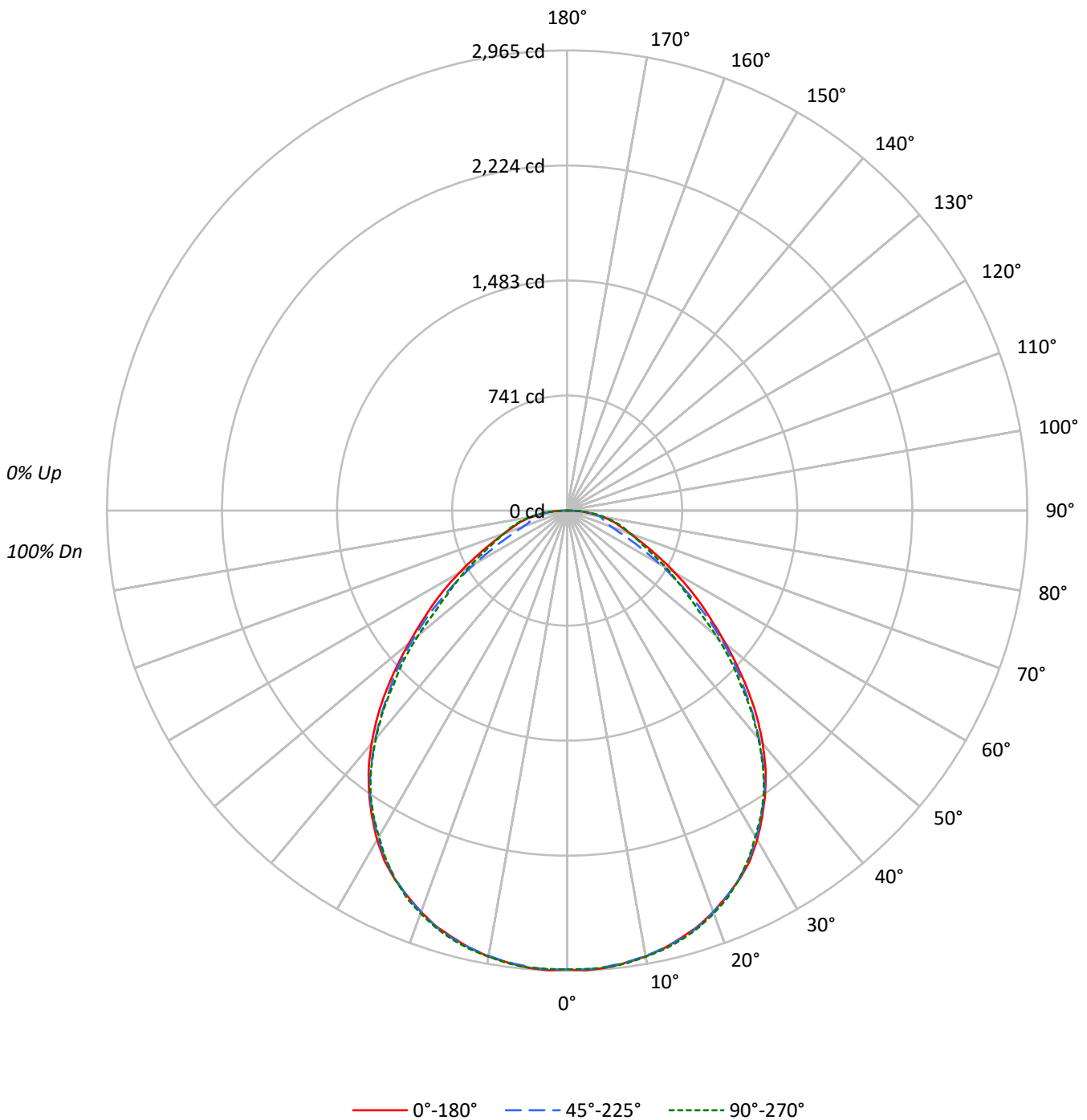
Input Watts (W): 54.75189
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3978	3978	3978
5°	3992	3983	3990
10°	3986	3980	3987
15°	3967	3974	3985
20°	3940	3940	3955
25°	3896	3888	3891
30°	3805	3785	3767
35°	3655	3644	3631
40°	3443	3380	3365
45°	3149	3063	3007
50°	2784	2729	2623
55°	2476	2308	2218
60°	2156	1846	1980
65°	1862	1432	1751
70°	1698	1171	1694
75°	1712	1262	1800
80°	1783	1644	1898
85°	1857	1956	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	4.1
10°-20°	804.3	11.9
20°-30°	1204.0	17.8
30°-40°	1375.8	20.3
40°-50°	1243.8	18.4
50°-60°	894.9	13.2
60°-70°	518.8	7.7
70°-80°	307.7	4.5
80°-90°	136.3	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°	2288.8	33.8
0°-40°	3664.5	54.2
0°-60°	5803.2	85.8
0°-90°	6766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2956	2956	2956	2956	2956	
5°	2956	2951	2949	2945	2954	281
15°	2848	2853	2853	2850	2860	804
25°	2624	2621	2619	2614	2621	1206
35°	2225	2214	2219	2191	2210	1387
45°	1655	1627	1610	1595	1580	1271
55°	1056	1036	984	958	946	944
65°	585	519	450	502	550	590
75°	329	276	243	300	346	348
85°	120	130	127	146	136	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2956.5	2956.5	2956.5	2956.5	2956.5
2.5°	2965.0	2954.4	2959.7	2956.5	2955.5
5°	2955.5	2951.2	2949.1	2944.9	2954.4
7.5°	2936.5	2933.3	2934.3	2935.4	2941.7
10°	2917.5	2912.2	2913.2	2915.3	2918.5
12.5°	2887.9	2884.7	2885.8	2887.9	2895.3
15°	2847.8	2853.1	2853.1	2849.9	2860.5
17.5°	2807.7	2806.6	2811.9	2802.4	2817.2
20°	2751.7	2752.8	2751.7	2752.8	2762.3
22.5°	2688.4	2693.7	2690.5	2690.5	2701.1
25°	2624.0	2620.9	2618.7	2613.5	2620.9
27.5°	2547.0	2540.6	2535.4	2524.8	2530.1
30°	2448.8	2449.9	2436.1	2426.6	2424.5
32.5°	2339.0	2339.0	2326.4	2319.0	2325.3
35°	2225.0	2214.5	2218.7	2191.3	2210.3
37.5°	2101.5	2084.6	2075.1	2065.6	2072.0
40°	1960.1	1937.9	1924.2	1905.2	1915.8
42.5°	1811.3	1783.8	1766.9	1753.2	1757.4
45°	1655.1	1626.6	1609.7	1594.9	1580.1
47.5°	1490.4	1472.4	1464.0	1445.0	1428.1
50°	1330.0	1323.6	1303.6	1287.7	1252.9
52.5°	1183.2	1178.0	1146.3	1119.9	1075.6
55°	1055.5	1035.5	983.7	958.4	945.7
57.5°	925.7	893.0	830.7	827.5	836.0
60°	801.1	761.0	686.1	703.0	735.7
62.5°	688.2	628.0	556.3	596.4	635.4
65°	584.8	519.3	449.7	502.4	549.9
67.5°	499.3	433.8	362.0	432.8	487.6
70°	431.7	365.2	297.7	378.9	430.7
72.5°	375.8	315.6	259.7	336.7	390.5
75°	329.3	275.5	242.8	299.8	346.2
77.5°	282.9	239.6	232.2	267.0	295.5
80°	230.1	210.0	212.2	234.3	244.9
82.5°	172.0	173.1	178.4	196.3	192.1
85°	120.3	129.8	126.7	145.7	136.2
87.5°	66.5	72.8	68.6	83.4	74.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)