

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: P293909

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293909
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-LD5-85-A125-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

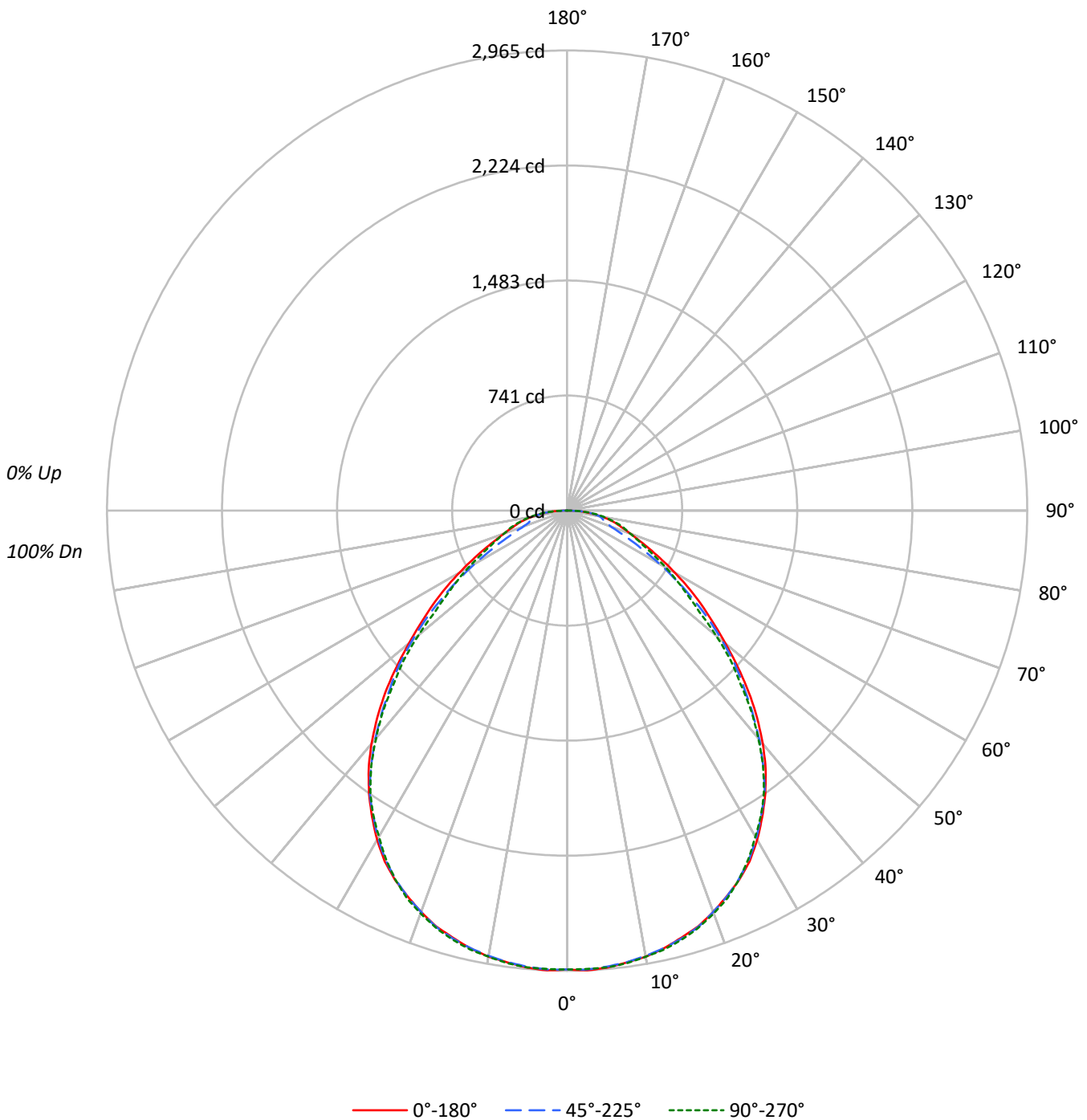
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	3984	3991
10°	3987	3981	3988
15°	3967	3975	3985
20°	3941	3941	3956
25°	3896	3888	3891
30°	3805	3785	3767
35°	3655	3645	3631
40°	3443	3380	3365
45°	3150	3063	3007
50°	2784	2729	2623
55°	2476	2308	2219
60°	2156	1847	1980
65°	1862	1432	1751
70°	1699	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°	804.5	11.9
20°-30°	1204.2	17.8
30°-40°	1376.0	20.3
40°-50°	1244.0	18.4
50°-60°	895.0	13.2
60°-70°	518.8	7.7
70°-80°	307.8	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°	2289.1	33.8
0°-40°	3665.1	54.2
0°-60°	5804.0	85.8
0°-90°	6767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2957	2957	2957	2957	2957	
5°	2956	2952	2950	2945	2955	281
15°	2848	2854	2854	2850	2861	804
25°	2624	2621	2619	2614	2621	1207
35°	2225	2215	2219	2192	2211	1387
45°	1655	1627	1610	1595	1580	1272
55°	1056	1036	984	959	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°	2956.9	2956.9	2956.9	2956.9	2956.9
2.5°	2965.4	2954.8	2960.1	2956.9	2955.9
5°	2955.9	2951.7	2949.6	2945.3	2954.8
7.5°	2936.9	2933.7	2934.8	2935.8	2942.2
10°	2917.9	2912.6	2913.7	2915.8	2918.9
12.5°	2888.3	2885.2	2886.2	2888.3	2895.7
15°	2848.2	2853.5	2853.5	2850.3	2860.9
17.5°	2808.1	2807.0	2812.3	2802.8	2817.6
20°	2752.1	2753.2	2752.1	2753.2	2762.7
22.5°	2688.8	2694.1	2690.9	2690.9	2701.5
25°	2624.4	2621.2	2619.1	2613.8	2621.2
27.5°	2547.3	2541.0	2535.7	2525.2	2530.5
30°	2449.2	2450.2	2436.5	2427.0	2424.9
32.5°	2339.4	2339.4	2326.7	2319.3	2325.7
35°	2225.4	2214.8	2219.0	2191.6	2210.6
37.5°	2101.8	2085.0	2075.5	2066.0	2072.3
40°	1960.4	1938.2	1924.5	1905.5	1916.0
42.5°	1811.5	1784.1	1767.2	1753.5	1757.7
45°	1655.3	1626.8	1609.9	1595.1	1580.3
47.5°	1490.6	1472.7	1464.2	1445.2	1428.3
50°	1330.1	1323.8	1303.8	1287.9	1253.1
52.5°	1183.4	1178.1	1146.5	1120.1	1075.7
55°	1055.7	1035.6	983.9	958.6	945.9
57.5°	925.8	893.1	830.8	827.6	836.1
60°	801.3	761.1	686.2	703.1	735.8
62.5°	688.3	628.1	556.3	596.5	635.5
65°	584.8	519.4	449.7	502.5	550.0
67.5°	499.3	433.9	362.1	432.8	487.7
70°	431.8	365.3	297.7	379.0	430.7
72.5°	375.8	315.6	259.7	336.8	390.6
75°	329.4	275.5	242.8	299.8	346.3
77.5°	282.9	239.6	232.2	267.1	295.6
80°	230.1	210.1	212.2	234.4	244.9
82.5°	172.1	173.1	178.4	196.4	192.1
85°	120.3	129.8	126.7	145.7	136.2
87.5°	66.5	72.8	68.6	83.4	75.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)