

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: P293904

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293904
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-L92765-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: 6696.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

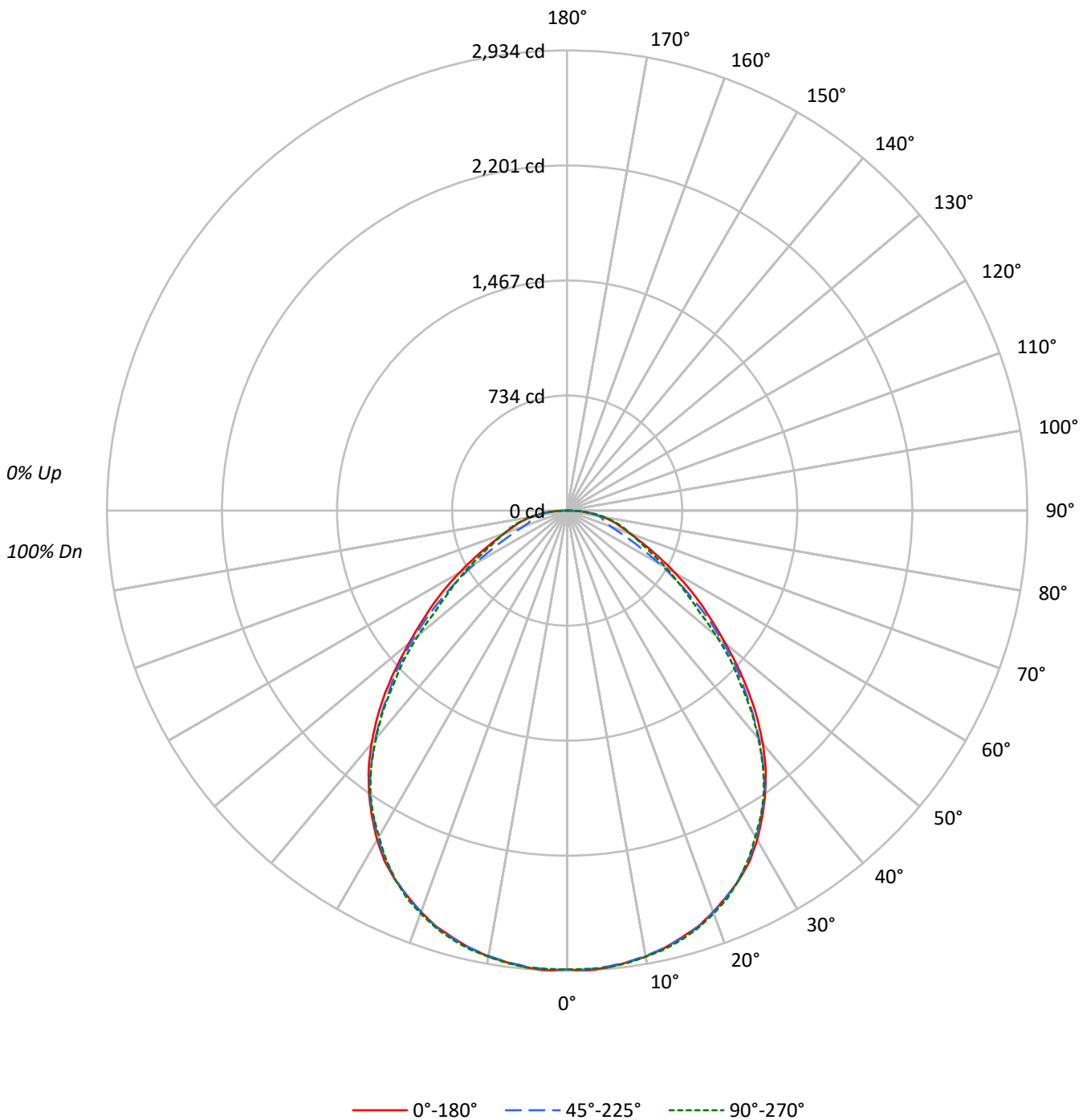
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3937	3937	3937
5°	3950	3942	3949
10°	3945	3939	3946
15°	3926	3933	3943
20°	3899	3899	3914
25°	3855	3847	3851
30°	3765	3746	3728
35°	3617	3607	3593
40°	3407	3345	3330
45°	3117	3031	2976
50°	2755	2700	2595
55°	2450	2284	2196
60°	2133	1827	1959
65°	1842	1417	1733
70°	1681	1159	1677
75°	1694	1249	1781
80°	1764	1627	1877
85°	1839	1936	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	4.1
10°-20°	796.0	11.9
20°-30°	1191.5	17.8
30°-40°	1361.5	20.3
40°-50°	1231.0	18.4
50°-60°	885.6	13.2
60°-70°	513.4	7.7
70°-80°	304.6	4.5
80°-90°	134.9	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°	2265.1	33.8
0°-40°	3626.6	54.2
0°-60°	5743.2	85.8
0°-90°	6696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2925	2921	2919	2914	2924	278
15°	2818	2824	2824	2820	2831	796
25°	2597	2594	2592	2586	2594	1194
35°	2202	2192	2196	2169	2187	1373
45°	1638	1610	1593	1578	1564	1258
55°	1045	1025	974	948	936	934
65°	579	514	445	497	544	584
75°	326	273	240	297	343	344
85°	119	128	125	144	135	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	2934.3	2923.8	2929.1	2925.9	2924.9
5°	2924.9	2920.7	2918.6	2914.4	2923.8
7.5°	2906.1	2902.9	2904.0	2905.0	2911.3
10°	2887.3	2882.0	2883.1	2885.2	2888.3
12.5°	2858.0	2854.9	2855.9	2858.0	2865.3
15°	2818.3	2823.5	2823.5	2820.4	2830.9
17.5°	2778.6	2777.6	2782.8	2773.4	2788.0
20°	2723.3	2724.3	2723.3	2724.3	2733.7
22.5°	2660.6	2665.8	2662.7	2662.7	2673.1
25°	2596.9	2593.7	2591.6	2586.4	2593.7
27.5°	2520.6	2514.3	2509.1	2498.7	2503.9
30°	2423.5	2424.5	2410.9	2401.5	2399.4
32.5°	2314.8	2314.8	2302.3	2295.0	2301.2
35°	2202.0	2191.6	2195.7	2168.6	2187.4
37.5°	2079.8	2063.1	2053.7	2044.3	2050.5
40°	1939.8	1917.9	1904.3	1885.5	1895.9
42.5°	1792.5	1765.4	1748.7	1735.1	1739.3
45°	1637.9	1609.7	1593.0	1578.4	1563.8
47.5°	1475.0	1457.2	1448.9	1430.1	1413.3
50°	1316.2	1309.9	1290.1	1274.4	1239.9
52.5°	1171.0	1165.8	1134.4	1108.3	1064.4
55°	1044.6	1024.8	973.6	948.5	936.0
57.5°	916.1	883.7	822.1	819.0	827.3
60°	792.8	753.2	679.0	695.7	728.1
62.5°	681.1	621.5	550.5	590.2	628.8
65°	578.7	513.9	445.0	497.2	544.2
67.5°	494.1	429.3	358.3	428.3	482.6
70°	427.2	361.4	294.6	375.0	426.2
72.5°	371.9	312.3	257.0	333.2	386.5
75°	325.9	272.6	240.3	296.7	342.6
77.5°	280.0	237.1	229.8	264.3	292.5
80°	227.7	207.9	210.0	231.9	242.3
82.5°	170.3	171.3	176.5	194.3	190.1
85°	119.1	128.5	125.4	144.2	134.8
87.5°	65.8	72.1	67.9	82.5	74.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)