

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: P293192

Luminaire Tested: **24GR-LD5-64-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6399.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

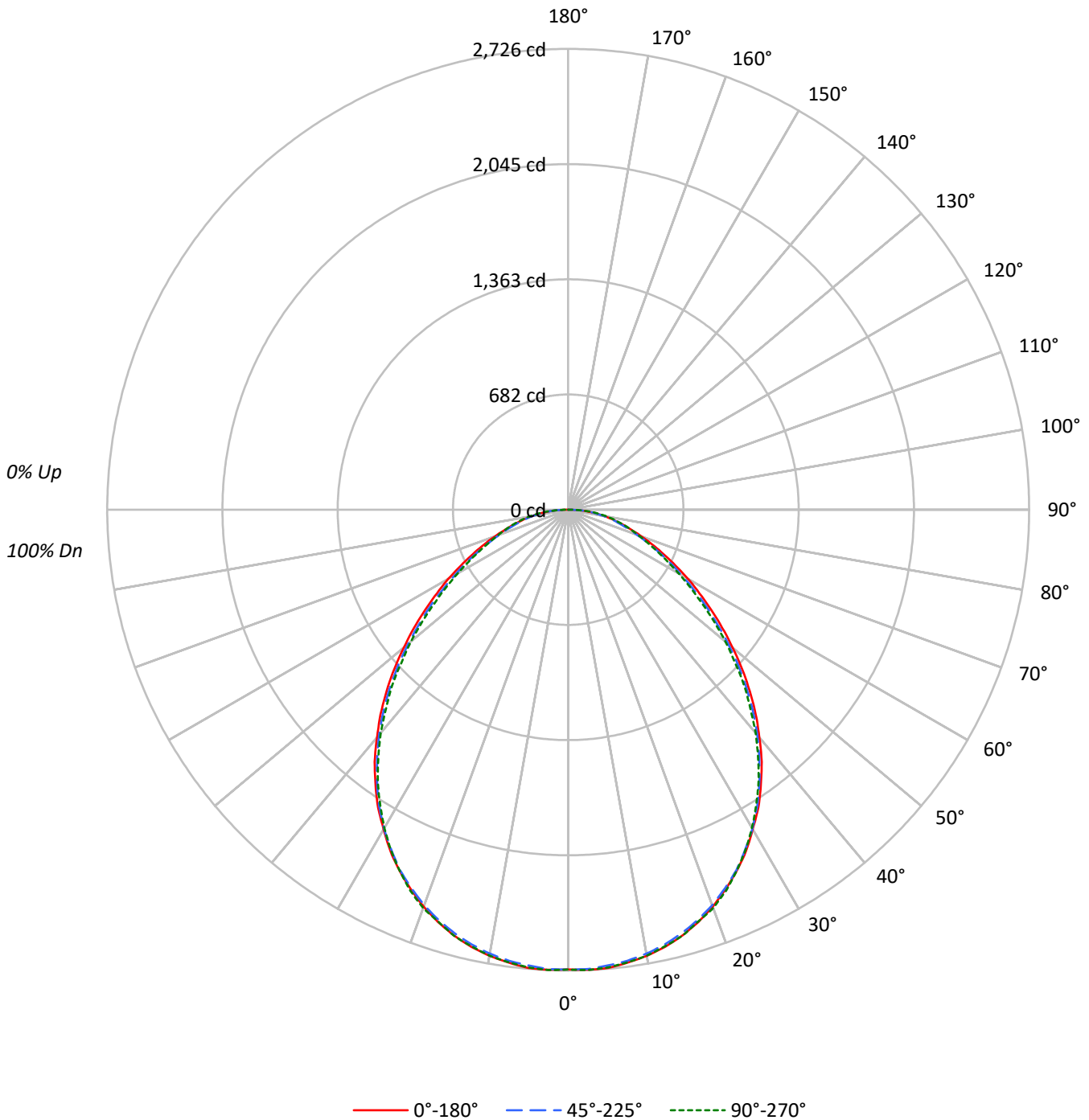
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3659	3659	3659
5°	3676	3656	3670
10°	3661	3643	3660
15°	3632	3613	3635
20°	3579	3565	3590
25°	3501	3492	3500
30°	3391	3385	3377
35°	3263	3238	3225
40°	3088	3053	3029
45°	2889	2836	2802
50°	2655	2584	2540
55°	2421	2332	2264
60°	2199	2081	2027
65°	1981	1869	1837
70°	1814	1696	1743
75°	1695	1617	1737
80°	1681	1650	1813
85°	1714	1729	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	4.0
10°-20°	731.7	11.4
20°-30°	1081.0	16.9
30°-40°	1229.0	19.2
40°-50°	1147.7	17.9
50°-60°	892.6	13.9
60°-70°	592.2	9.3
70°-80°	342.7	5.4
80°-90°	124.6	1.9
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°	2070.1	32.4
0°-40°	3299.1	51.6
0°-60°	5339.4	83.4
0°-90°	6399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2720	2720	2720	2720	2720	
5°	2722	2708	2707	2712	2718	258
15°	2608	2594	2594	2592	2610	735
25°	2358	2348	2352	2348	2358	1084
35°	1986	1976	1971	1957	1963	1240
45°	1518	1506	1490	1471	1472	1170
55°	1032	1017	994	968	965	926
65°	622	603	587	576	577	622
75°	326	318	311	325	334	349
85°	111	109	112	127	128	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2719.6	2719.6	2719.6	2719.6	2719.6
2.5°	2723.6	2715.6	2719.6	2716.6	2725.6
5°	2721.6	2707.6	2706.6	2711.6	2717.6
7.5°	2702.6	2687.6	2690.6	2690.6	2700.6
10°	2679.6	2664.6	2666.6	2667.6	2678.6
12.5°	2648.6	2633.6	2634.6	2633.6	2644.6
15°	2607.6	2594.5	2593.5	2592.5	2609.6
17.5°	2557.5	2539.5	2545.5	2546.5	2555.5
20°	2499.5	2485.5	2489.5	2488.5	2507.5
22.5°	2430.5	2420.5	2423.5	2421.5	2439.5
25°	2358.5	2348.5	2352.5	2347.5	2357.5
27.5°	2277.5	2270.5	2266.5	2263.5	2270.5
30°	2182.5	2178.5	2178.5	2165.5	2173.5
32.5°	2092.4	2079.4	2079.4	2074.4	2069.4
35°	1986.4	1976.4	1971.4	1957.4	1963.4
37.5°	1880.4	1857.4	1855.4	1844.4	1844.4
40°	1758.4	1745.4	1738.4	1726.4	1724.4
42.5°	1642.3	1629.3	1617.3	1597.3	1593.3
45°	1518.3	1506.3	1490.3	1471.3	1472.3
47.5°	1395.3	1378.3	1363.3	1340.3	1337.3
50°	1268.3	1256.3	1234.3	1214.3	1213.3
52.5°	1149.2	1130.2	1110.2	1086.2	1086.2
55°	1032.2	1017.2	994.2	968.2	965.2
57.5°	920.2	906.2	880.2	861.2	856.2
60°	817.2	797.2	773.2	757.2	753.2
62.5°	714.2	696.1	678.1	662.1	661.1
65°	622.1	603.1	587.1	576.1	577.1
67.5°	539.1	523.1	505.1	502.1	503.1
70°	461.1	444.1	431.1	438.1	443.1
72.5°	387.1	378.1	369.1	379.1	386.1
75°	326.1	318.1	311.1	325.1	334.1
77.5°	270.1	264.1	263.1	275.1	283.1
80°	217.0	210.0	213.0	227.0	234.0
82.5°	165.0	160.0	161.0	178.0	183.0
85°	111.0	109.0	112.0	127.0	128.0
87.5°	59.0	59.0	61.0	70.0	67.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)