

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: P293196

Luminaire Tested: **24GR-LD5-72-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293196
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-LD5-72-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

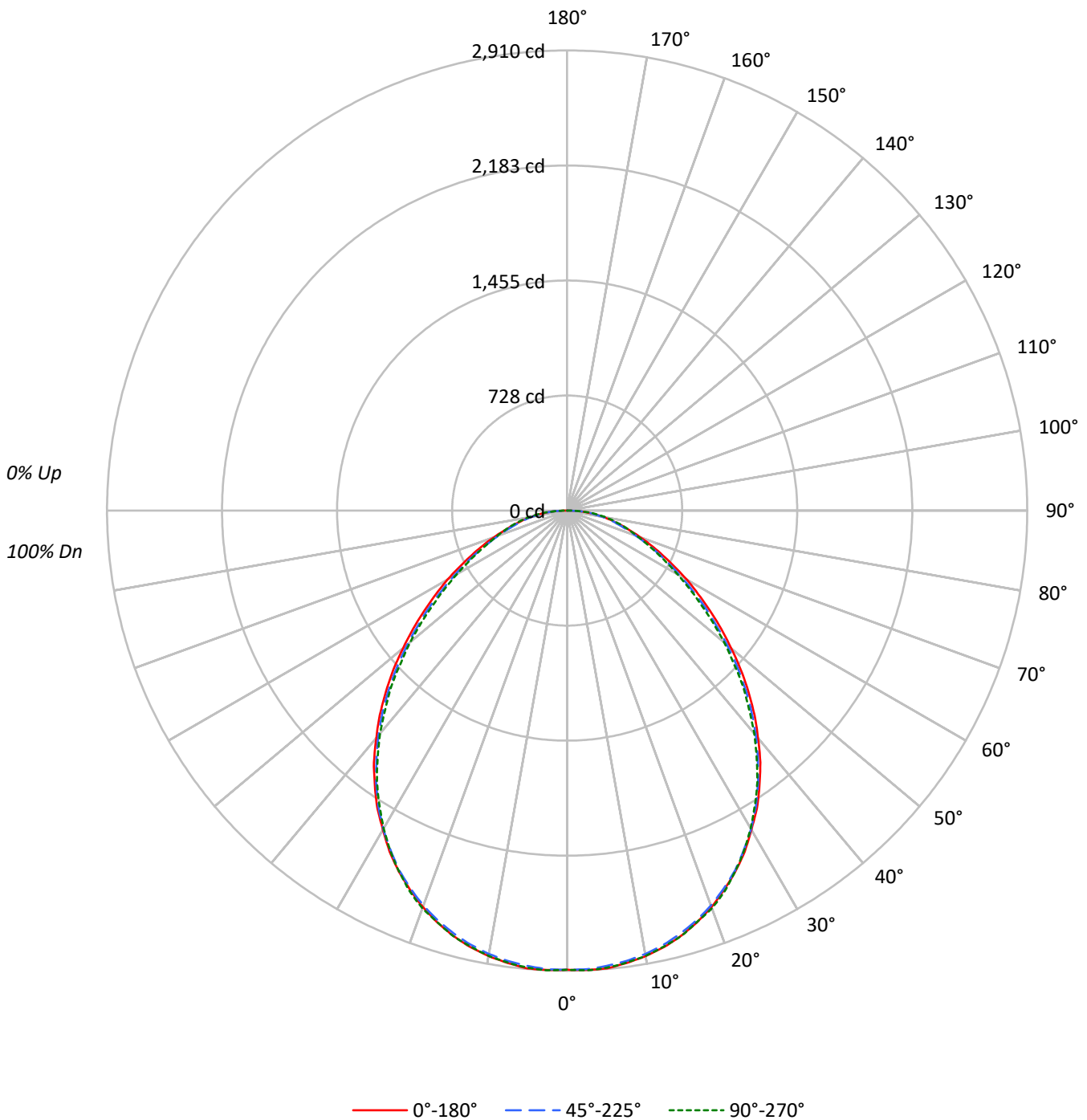
Input Watts (W): 52.452
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	3907	3907	3907
5°	3925	3903	3919
10°	3909	3890	3907
15°	3878	3857	3881
20°	3821	3806	3833
25°	3738	3729	3737
30°	3620	3614	3605
35°	3483	3457	3443
40°	3297	3260	3234
45°	3085	3028	2991
50°	2834	2758	2712
55°	2585	2490	2417
60°	2348	2221	2164
65°	2115	1996	1962
70°	1937	1811	1861
75°	1810	1726	1854
80°	1795	1763	1936
85°	1829	1846	2110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	4.0
10°-20°	781.3	11.4
20°-30°	1154.2	16.9
30°-40°	1312.2	19.2
40°-50°	1225.4	17.9
50°-60°	952.9	13.9
60°-70°	632.3	9.3
70°-80°	365.9	5.4
80°-90°	133.1	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°	2210.2	32.4
0°-40°	3522.4	51.6
0°-60°	5700.7	83.4
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2904	2904	2904	2904	2904	
5°	2906	2891	2890	2895	2902	276
15°	2784	2770	2769	2768	2786	784
25°	2518	2507	2512	2506	2517	1158
35°	2121	2110	2105	2090	2096	1324
45°	1621	1608	1591	1571	1572	1249
55°	1102	1086	1062	1034	1030	988
65°	664	644	627	615	616	664
75°	348	340	332	347	357	372
85°	118	116	120	136	137	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2903.6	2903.6	2903.6	2903.6	2903.6
2.5°	2907.9	2899.3	2903.6	2900.4	2910.0
5°	2905.7	2890.8	2889.7	2895.1	2901.5
7.5°	2885.4	2869.4	2872.6	2872.6	2883.3
10°	2860.9	2844.9	2847.0	2848.1	2859.8
12.5°	2827.8	2811.8	2812.8	2811.8	2823.5
15°	2784.0	2770.1	2769.0	2768.0	2786.1
17.5°	2730.6	2711.4	2717.8	2718.9	2728.5
20°	2668.7	2653.7	2658.0	2656.9	2677.2
22.5°	2595.0	2584.3	2587.5	2585.4	2604.6
25°	2518.1	2507.4	2511.7	2506.3	2517.0
27.5°	2431.6	2424.1	2419.8	2416.6	2424.1
30°	2330.1	2325.9	2325.9	2312.0	2320.5
32.5°	2234.0	2220.1	2220.1	2214.8	2209.5
35°	2120.8	2110.2	2104.8	2089.9	2096.3
37.5°	2007.6	1983.1	1980.9	1969.2	1969.2
40°	1877.4	1863.5	1856.0	1843.2	1841.0
42.5°	1753.5	1739.6	1726.8	1705.4	1701.2
45°	1621.1	1608.2	1591.2	1570.9	1571.9
47.5°	1489.7	1471.6	1455.5	1431.0	1427.8
50°	1354.1	1341.3	1317.8	1296.4	1295.4
52.5°	1227.0	1206.7	1185.4	1159.7	1159.7
55°	1102.1	1086.0	1061.5	1033.7	1030.5
57.5°	982.5	967.5	939.7	919.5	914.1
60°	872.5	851.1	825.5	808.4	804.1
62.5°	762.5	743.3	724.0	706.9	705.9
65°	664.2	643.9	626.9	615.1	616.2
67.5°	575.6	558.5	539.3	536.1	537.1
70°	492.3	474.1	460.3	467.7	473.1
72.5°	413.3	403.7	394.1	404.7	412.2
75°	348.1	339.6	332.1	347.1	356.7
77.5°	288.3	281.9	280.9	293.7	302.2
80°	231.7	224.3	227.5	242.4	249.9
82.5°	176.2	170.9	171.9	190.1	195.4
85°	118.5	116.4	119.6	135.6	136.7
87.5°	63.0	63.0	65.1	74.8	71.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)