

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: P293325

Luminaire Tested: **24GR-LD5-72-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293325
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-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6753.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

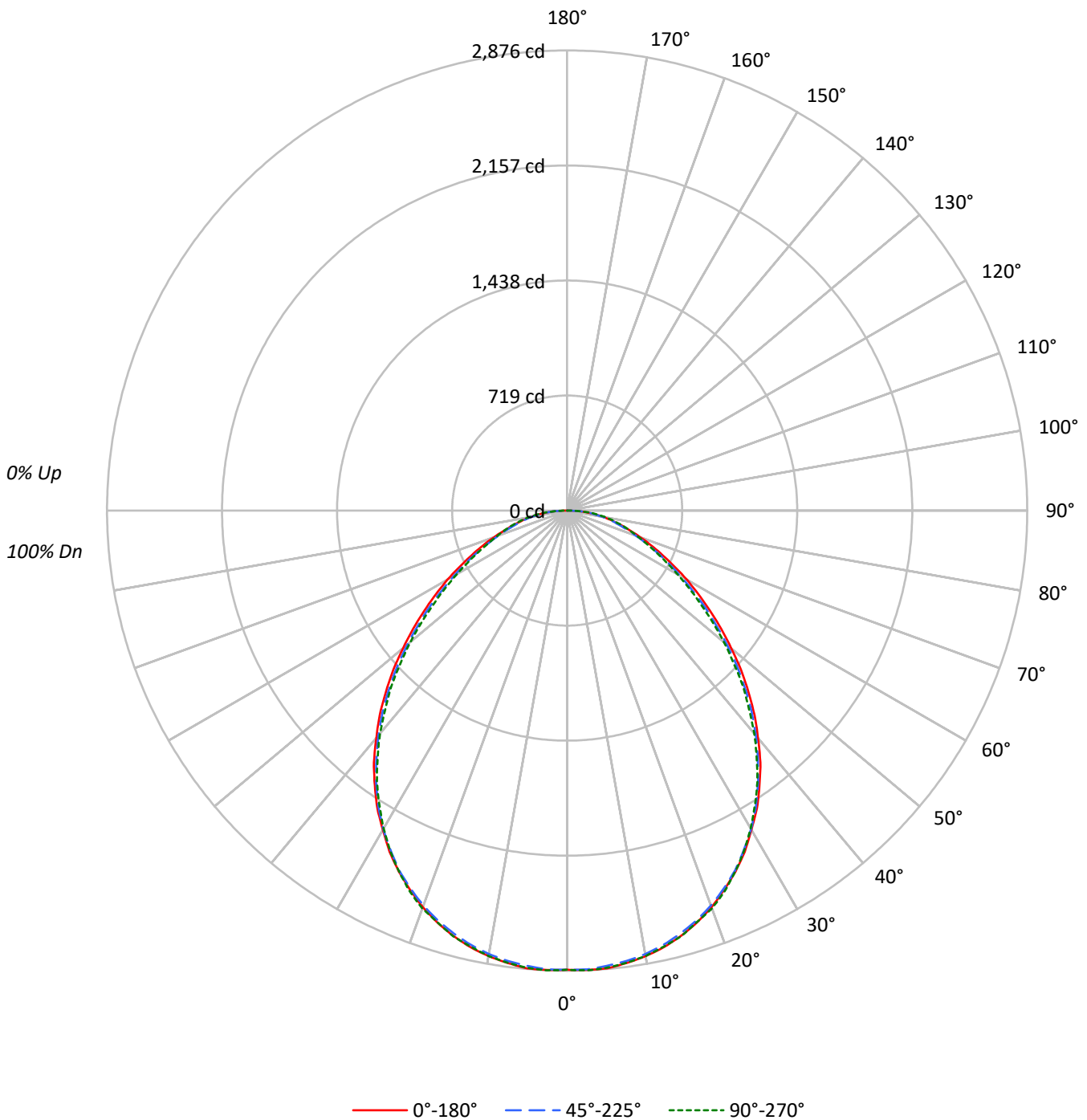
Input Watts (W): 54.75189
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3862	3862	3862
5°	3879	3858	3873
10°	3863	3845	3862
15°	3833	3813	3836
20°	3777	3762	3789
25°	3695	3686	3693
30°	3578	3572	3564
35°	3443	3417	3403
40°	3259	3222	3196
45°	3049	2993	2957
50°	2802	2726	2680
55°	2555	2461	2389
60°	2321	2196	2139
65°	2090	1973	1939
70°	1914	1790	1840
75°	1789	1707	1833
80°	1775	1742	1914
85°	1809	1825	2086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	4.0
10°-20°	772.2	11.4
20°-30°	1140.8	16.9
30°-40°	1297.0	19.2
40°-50°	1211.2	17.9
50°-60°	941.9	13.9
60°-70°	625.0	9.3
70°-80°	361.7	5.4
80°-90°	131.5	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°	2184.7	32.4
0°-40°	3481.7	51.6
0°-60°	5634.8	83.4
0°-90°	6753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2872	2857	2856	2862	2868	273
15°	2752	2738	2737	2736	2754	775
25°	2489	2478	2483	2477	2488	1144
35°	2096	2086	2080	2066	2072	1309
45°	1602	1590	1573	1553	1554	1235
55°	1089	1074	1049	1022	1019	977
65°	656	636	620	608	609	656
75°	344	336	328	343	353	368
85°	117	115	118	134	135	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2870.0	2870.0	2870.0	2870.0	2870.0
2.5°	2874.2	2865.8	2870.0	2866.9	2876.4
5°	2872.1	2857.4	2856.3	2861.6	2867.9
7.5°	2852.1	2836.2	2839.4	2839.4	2850.0
10°	2827.8	2812.0	2814.1	2815.1	2826.7
12.5°	2795.1	2779.2	2780.3	2779.2	2790.9
15°	2751.8	2738.1	2737.0	2736.0	2753.9
17.5°	2699.0	2680.0	2686.4	2687.4	2696.9
20°	2637.8	2623.0	2627.2	2626.2	2646.2
22.5°	2565.0	2554.4	2557.6	2555.5	2574.5
25°	2489.0	2478.4	2482.6	2477.4	2487.9
27.5°	2403.5	2396.1	2391.9	2388.7	2396.1
30°	2303.2	2299.0	2299.0	2285.3	2293.7
32.5°	2208.2	2194.5	2194.5	2189.2	2183.9
35°	2096.3	2085.8	2080.5	2065.7	2072.0
37.5°	1984.4	1960.1	1958.0	1946.4	1946.4
40°	1855.6	1841.9	1834.5	1821.9	1819.8
42.5°	1733.2	1719.5	1706.8	1685.7	1681.5
45°	1602.3	1589.6	1572.8	1552.7	1553.8
47.5°	1472.5	1454.5	1438.7	1414.4	1411.3
50°	1338.4	1325.8	1302.5	1281.4	1280.4
52.5°	1212.8	1192.8	1171.7	1146.3	1146.3
55°	1089.3	1073.5	1049.2	1021.8	1018.6
57.5°	971.1	956.3	928.9	908.8	903.5
60°	862.4	841.3	815.9	799.0	794.8
62.5°	753.7	734.7	715.7	698.8	697.7
65°	656.5	636.5	619.6	608.0	609.0
67.5°	568.9	552.0	533.0	529.9	530.9
70°	486.6	468.7	454.9	462.3	467.6
72.5°	408.5	399.0	389.5	400.1	407.4
75°	344.1	335.7	328.3	343.1	352.6
77.5°	285.0	278.7	277.6	290.3	298.7
80°	229.1	221.7	224.8	239.6	247.0
82.5°	174.2	168.9	169.9	187.9	193.2
85°	117.2	115.1	118.2	134.1	135.1
87.5°	62.3	62.3	64.4	73.9	70.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)