

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: P293269

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293269
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

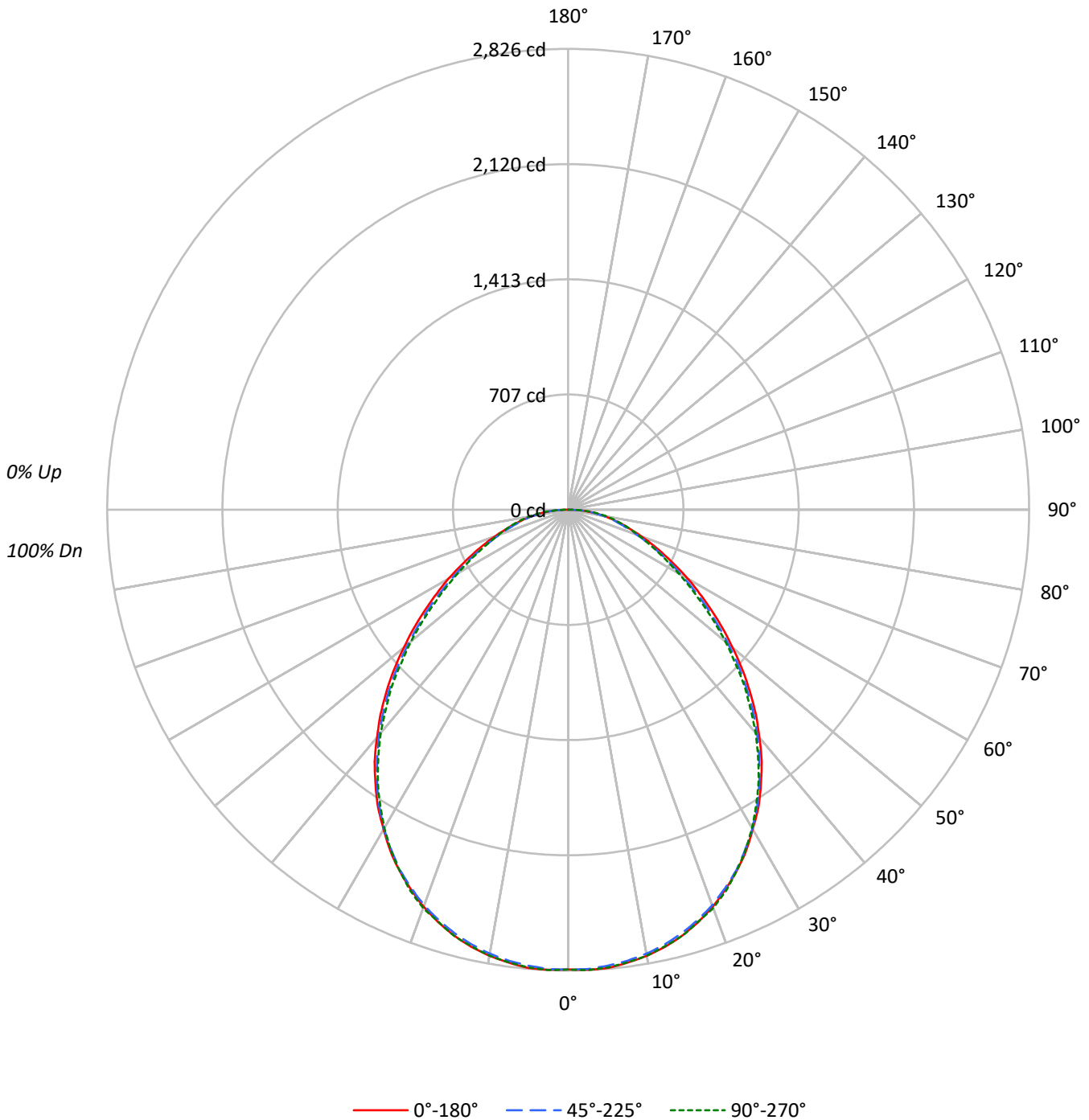
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3793	3793	3793
5°	3811	3790	3805
10°	3795	3777	3794
15°	3766	3745	3768
20°	3710	3696	3722
25°	3630	3621	3628
30°	3515	3509	3501
35°	3383	3357	3343
40°	3202	3165	3140
45°	2995	2940	2904
50°	2752	2678	2633
55°	2510	2418	2347
60°	2280	2157	2101
65°	2053	1938	1905
70°	1880	1758	1807
75°	1757	1677	1800
80°	1743	1712	1880
85°	1777	1792	2049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	4.0
10°-20°	758.6	11.4
20°-30°	1120.7	16.9
30°-40°	1274.1	19.2
40°-50°	1189.9	17.9
50°-60°	925.3	13.9
60°-70°	614.0	9.3
70°-80°	355.3	5.4
80°-90°	129.2	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°	2146.2	32.4
0°-40°	3420.3	51.6
0°-60°	5535.5	83.4
0°-90°	6634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2819	2819	2819	2819	2819	
5°	2822	2807	2806	2811	2817	268
15°	2703	2690	2689	2688	2705	762
25°	2445	2435	2439	2434	2444	1124
35°	2059	2049	2044	2029	2036	1286
45°	1574	1562	1545	1525	1526	1213
55°	1070	1055	1031	1004	1001	960
65°	645	625	609	597	598	645
75°	338	330	322	337	346	362
85°	115	113	116	132	133	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2819.4	2819.4	2819.4	2819.4	2819.4
2.5°	2823.6	2815.3	2819.4	2816.3	2825.7
5°	2821.5	2807.0	2806.0	2811.2	2817.4
7.5°	2801.8	2786.3	2789.4	2789.4	2799.7
10°	2778.0	2762.4	2764.5	2765.5	2776.9
12.5°	2745.8	2730.3	2731.3	2730.3	2741.7
15°	2703.3	2689.8	2688.8	2687.8	2705.4
17.5°	2651.5	2632.8	2639.0	2640.1	2649.4
20°	2591.3	2576.8	2581.0	2579.9	2599.6
22.5°	2519.8	2509.4	2512.5	2510.4	2529.1
25°	2445.1	2434.7	2438.9	2433.7	2444.1
27.5°	2361.1	2353.9	2349.7	2346.6	2353.9
30°	2262.6	2258.5	2258.5	2245.0	2253.3
32.5°	2169.3	2155.8	2155.8	2150.6	2145.4
35°	2059.4	2049.0	2043.8	2029.3	2035.5
37.5°	1949.5	1925.6	1923.5	1912.1	1912.1
40°	1822.9	1809.5	1802.2	1789.8	1787.7
42.5°	1702.7	1689.2	1676.7	1656.0	1651.9
45°	1574.1	1561.6	1545.0	1525.3	1526.4
47.5°	1446.5	1428.9	1413.4	1389.5	1386.4
50°	1314.8	1302.4	1279.6	1258.8	1257.8
52.5°	1191.4	1171.7	1151.0	1126.1	1126.1
55°	1070.1	1054.6	1030.7	1003.8	1000.7
57.5°	954.0	939.5	912.5	892.8	887.6
60°	847.2	826.4	801.6	785.0	780.8
62.5°	740.4	721.7	703.0	686.5	685.4
65°	645.0	625.3	608.7	597.3	598.3
67.5°	558.9	542.3	523.7	520.5	521.6
70°	478.0	460.4	446.9	454.2	459.4
72.5°	401.3	392.0	382.6	393.0	400.3
75°	338.0	329.7	322.5	337.0	346.3
77.5°	280.0	273.8	272.7	285.2	293.5
80°	225.0	217.8	220.9	235.4	242.6
82.5°	171.1	165.9	166.9	184.6	189.8
85°	115.1	113.0	116.1	131.7	132.7
87.5°	61.2	61.2	63.3	72.6	69.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)