

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: P293322

Luminaire Tested: **24GR-LD5-72-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293322
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5625.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

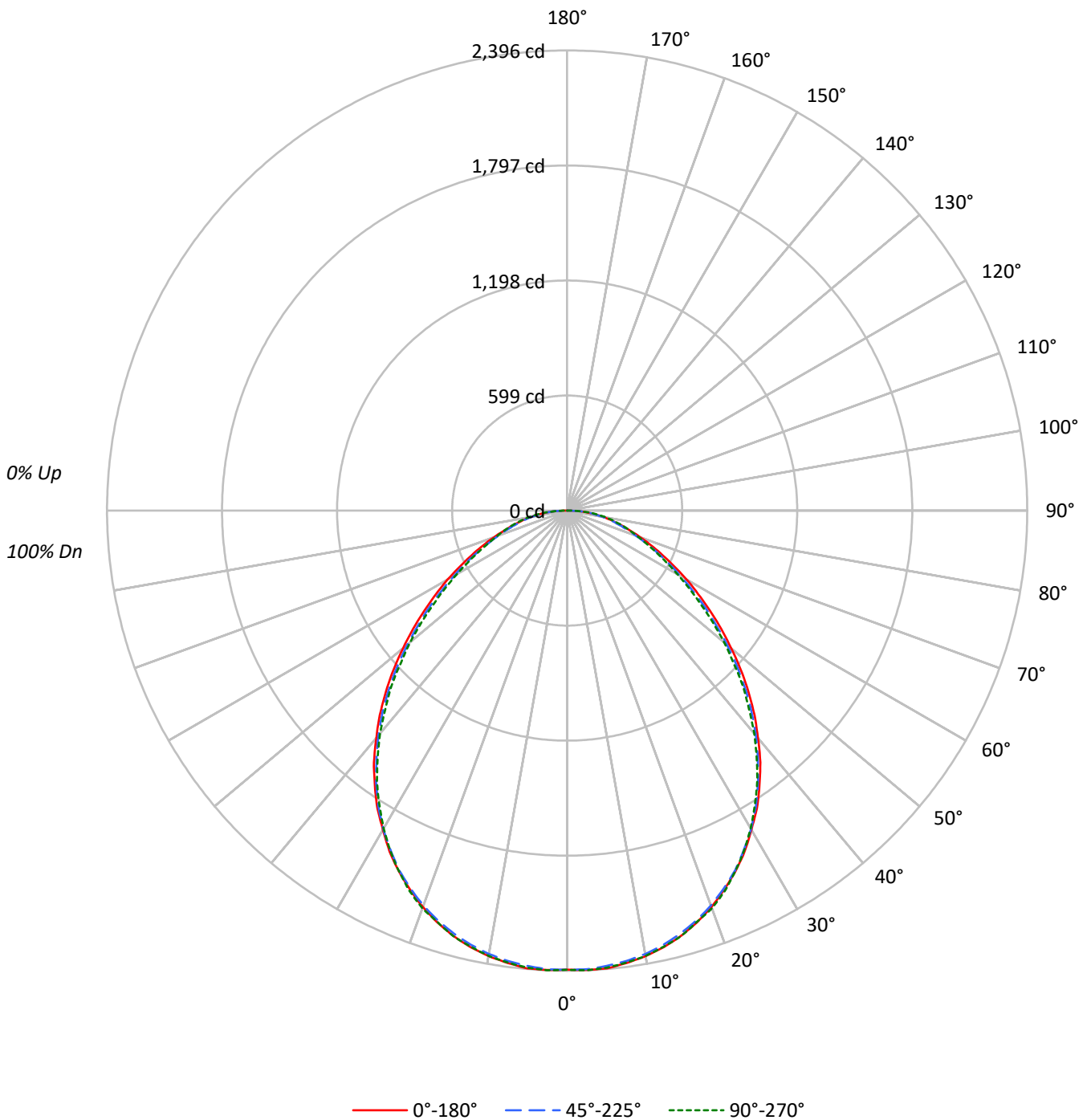
Input Watts (W): 53.753535
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	3217	3217	3217
5°	3231	3213	3227
10°	3218	3202	3217
15°	3193	3176	3195
20°	3146	3133	3156
25°	3078	3070	3077
30°	2981	2975	2968
35°	2868	2847	2835
40°	2715	2684	2662
45°	2540	2493	2463
50°	2334	2271	2232
55°	2129	2050	1990
60°	1933	1829	1782
65°	1741	1643	1615
70°	1594	1491	1532
75°	1490	1421	1527
80°	1478	1451	1594
85°	1507	1521	1737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	4.0
10°-20°	643.2	11.4
20°-30°	950.3	16.9
30°-40°	1080.4	19.2
40°-50°	1008.9	17.9
50°-60°	784.6	13.9
60°-70°	520.6	9.3
70°-80°	301.3	5.4
80°-90°	109.6	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°	1819.7	32.4
0°-40°	2900.1	51.6
0°-60°	4693.6	83.4
0°-90°	5625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2391	2391	2391	2391	2391	
5°	2392	2380	2379	2384	2389	227
15°	2292	2281	2280	2279	2294	646
25°	2073	2064	2068	2064	2072	953
35°	1746	1737	1733	1721	1726	1090
45°	1335	1324	1310	1293	1294	1028
55°	907	894	874	851	848	814
65°	547	530	516	506	507	547
75°	287	280	273	286	294	307
85°	98	96	98	112	112	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2390.6	2390.6	2390.6	2390.6	2390.6
2.5°	2394.1	2387.1	2390.6	2388.0	2395.9
5°	2392.4	2380.1	2379.2	2383.6	2388.9
7.5°	2375.7	2362.5	2365.1	2365.1	2373.9
10°	2355.5	2342.3	2344.0	2344.9	2354.6
12.5°	2328.2	2315.0	2315.9	2315.0	2324.7
15°	2292.2	2280.7	2279.8	2279.0	2293.9
17.5°	2248.2	2232.4	2237.6	2238.5	2246.4
20°	2197.2	2184.9	2188.4	2187.5	2204.2
22.5°	2136.5	2127.7	2130.4	2128.6	2144.4
25°	2073.2	2064.4	2067.9	2063.6	2072.3
27.5°	2002.0	1995.9	1992.3	1989.7	1995.9
30°	1918.5	1915.0	1915.0	1903.5	1910.6
32.5°	1839.3	1827.9	1827.9	1823.5	1819.1
35°	1746.1	1737.4	1733.0	1720.7	1725.9
37.5°	1653.0	1632.7	1631.0	1621.3	1621.3
40°	1545.7	1534.3	1528.1	1517.5	1515.8
42.5°	1443.7	1432.3	1421.7	1404.1	1400.6
45°	1334.7	1324.1	1310.1	1293.3	1294.2
47.5°	1226.5	1211.6	1198.4	1178.2	1175.5
50°	1114.9	1104.3	1085.0	1067.4	1066.5
52.5°	1010.2	993.5	975.9	954.8	954.8
55°	907.4	894.2	874.0	851.1	848.5
57.5°	808.9	796.6	773.7	757.0	752.6
60°	718.3	700.7	679.6	665.6	662.1
62.5°	627.8	611.9	596.1	582.0	581.2
65°	546.9	530.2	516.1	506.4	507.3
67.5°	473.9	459.8	444.0	441.4	442.3
70°	405.3	390.4	378.9	385.1	389.5
72.5°	340.3	332.3	324.4	333.2	339.4
75°	286.6	279.6	273.4	285.7	293.7
77.5°	237.4	232.1	231.2	241.8	248.8
80°	190.8	184.6	187.3	199.6	205.7
82.5°	145.1	140.7	141.6	156.5	160.9
85°	97.6	95.8	98.5	111.7	112.5
87.5°	51.9	51.9	53.6	61.5	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)