

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: P293258

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293258
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-LD5-56-F125-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5875.0 lumens
Efficiency: N/A
Efficacy: 146.6 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

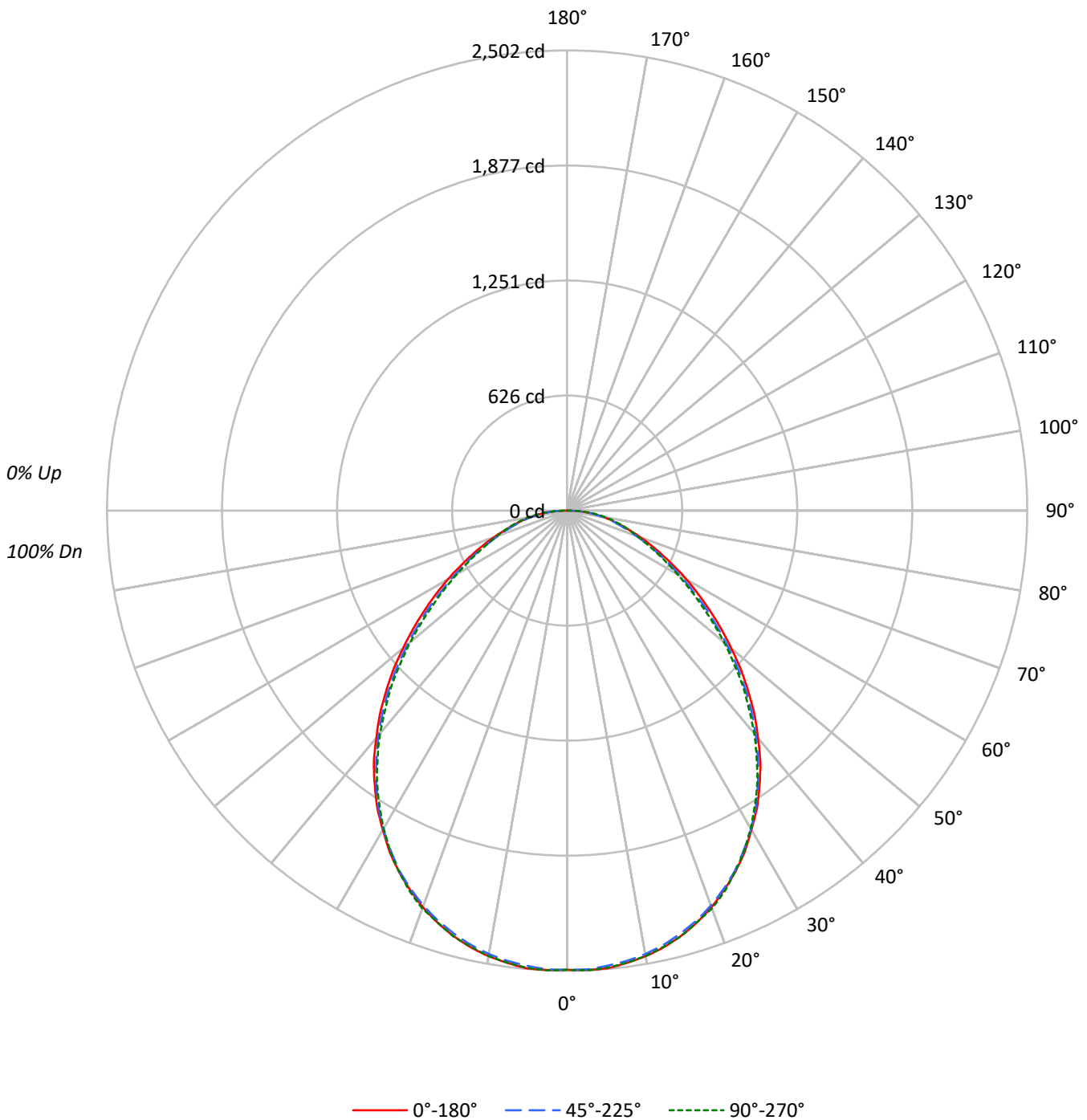
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3360	3360	3360
5°	3375	3356	3370
10°	3361	3345	3360
15°	3335	3317	3337
20°	3286	3273	3296
25°	3215	3207	3213
30°	3113	3107	3100
35°	2996	2973	2961
40°	2836	2803	2781
45°	2653	2604	2572
50°	2437	2372	2332
55°	2223	2141	2079
60°	2019	1910	1861
65°	1819	1716	1687
70°	1665	1557	1600
75°	1556	1485	1594
80°	1544	1516	1665
85°	1573	1589	1814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	4.0
10°-20°	671.8	11.4
20°-30°	992.5	16.9
30°-40°	1128.4	19.2
40°-50°	1053.7	17.9
50°-60°	819.5	13.9
60°-70°	543.7	9.3
70°-80°	314.7	5.4
80°-90°	114.4	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°	1900.6	32.4
0°-40°	3029.0	51.6
0°-60°	4902.2	83.4
0°-90°	5875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2497	2497	2497	2497	2497	
5°	2499	2486	2485	2490	2495	237
15°	2394	2382	2381	2380	2396	674
25°	2165	2156	2160	2155	2164	996
35°	1824	1815	1810	1797	1803	1139
45°	1394	1383	1368	1351	1352	1074
55°	948	934	913	889	886	850
65°	571	554	539	529	530	571
75°	299	292	286	298	307	320
85°	102	100	103	117	118	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2496.9	2496.9	2496.9	2496.9	2496.9
2.5°	2500.5	2493.2	2496.9	2494.1	2502.4
5°	2498.7	2485.9	2484.9	2489.5	2495.0
7.5°	2481.3	2467.5	2470.2	2470.2	2479.4
10°	2460.1	2446.4	2448.2	2449.1	2459.2
12.5°	2431.7	2417.9	2418.8	2417.9	2428.0
15°	2394.0	2382.1	2381.2	2380.2	2395.9
17.5°	2348.1	2331.6	2337.1	2338.0	2346.3
20°	2294.8	2282.0	2285.7	2284.7	2302.2
22.5°	2231.5	2222.3	2225.1	2223.2	2239.7
25°	2165.4	2156.2	2159.9	2155.3	2164.4
27.5°	2091.0	2084.6	2080.9	2078.1	2084.6
30°	2003.7	2000.1	2000.1	1988.1	1995.5
32.5°	1921.1	1909.2	1909.2	1904.6	1900.0
35°	1823.8	1814.6	1810.0	1797.1	1802.6
37.5°	1726.4	1705.3	1703.5	1693.4	1693.4
40°	1614.4	1602.4	1596.0	1585.0	1583.2
42.5°	1507.9	1495.9	1484.9	1466.5	1462.9
45°	1394.0	1383.0	1368.3	1350.8	1351.7
47.5°	1281.0	1265.4	1251.7	1230.5	1227.8
50°	1164.4	1153.4	1133.2	1114.8	1113.9
52.5°	1055.1	1037.7	1019.3	997.3	997.3
55°	947.7	933.9	912.8	888.9	886.2
57.5°	844.8	832.0	808.1	790.7	786.1
60°	750.3	731.9	709.9	695.2	691.5
62.5°	655.7	639.1	622.6	607.9	607.0
65°	571.2	553.7	539.0	528.9	529.9
67.5°	495.0	480.3	463.7	461.0	461.9
70°	423.3	407.7	395.8	402.2	406.8
72.5°	355.4	347.1	338.9	348.0	354.5
75°	299.4	292.0	285.6	298.4	306.7
77.5°	247.9	242.4	241.5	252.5	259.9
80°	199.3	192.8	195.6	208.5	214.9
82.5°	151.5	146.9	147.8	163.5	168.1
85°	101.9	100.1	102.9	116.6	117.5
87.5°	54.2	54.2	56.0	64.3	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)