

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: P293256

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293256
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

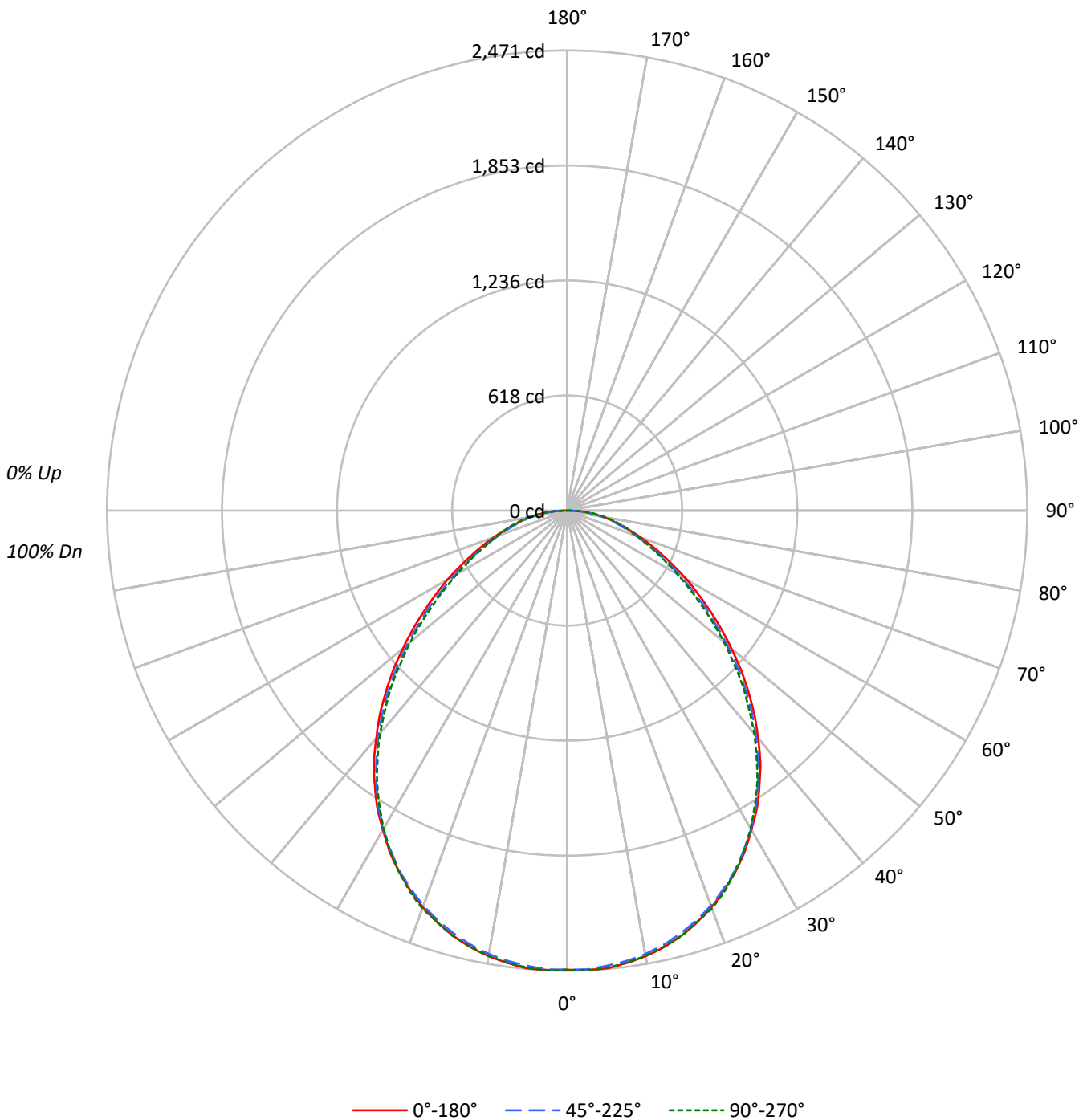
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3318	3318	3318
5°	3333	3315	3328
10°	3319	3303	3318
15°	3293	3276	3296
20°	3245	3232	3255
25°	3175	3167	3173
30°	3074	3069	3062
35°	2958	2936	2924
40°	2800	2768	2746
45°	2620	2571	2540
50°	2407	2343	2303
55°	2195	2115	2053
60°	1994	1886	1838
65°	1796	1695	1666
70°	1645	1538	1581
75°	1537	1466	1575
80°	1525	1497	1644
85°	1555	1568	1792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	4.0
10°-20°	663.5	11.4
20°-30°	980.2	16.9
30°-40°	1114.3	19.2
40°-50°	1040.6	17.9
50°-60°	809.3	13.9
60°-70°	537.0	9.3
70°-80°	310.7	5.4
80°-90°	113.0	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°	1877.0	32.4
0°-40°	2991.3	51.6
0°-60°	4841.3	83.4
0°-90°	5802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2468	2455	2454	2459	2464	234
15°	2364	2352	2352	2351	2366	666
25°	2138	2129	2133	2128	2138	983
35°	1801	1792	1788	1775	1780	1124
45°	1377	1366	1351	1334	1335	1061
55°	936	922	902	878	875	839
65°	564	547	532	522	523	564
75°	296	288	282	295	303	316
85°	101	99	102	115	116	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2465.8	2465.8	2465.8	2465.8	2465.8
2.5°	2469.5	2462.2	2465.8	2463.1	2471.3
5°	2467.7	2455.0	2454.1	2458.6	2464.0
7.5°	2450.4	2436.8	2439.5	2439.5	2448.6
10°	2429.6	2416.0	2417.8	2418.7	2428.7
12.5°	2401.5	2387.9	2388.8	2387.9	2397.8
15°	2364.3	2352.5	2351.6	2350.7	2366.1
17.5°	2318.9	2302.6	2308.0	2309.0	2317.1
20°	2266.3	2253.6	2257.3	2256.4	2273.6
22.5°	2203.8	2194.7	2197.4	2195.6	2211.9
25°	2138.5	2129.4	2133.0	2128.5	2137.6
27.5°	2065.0	2058.7	2055.0	2052.3	2058.7
30°	1978.8	1975.2	1975.2	1963.4	1970.7
32.5°	1897.2	1885.4	1885.4	1880.9	1876.4
35°	1801.1	1792.0	1787.5	1774.8	1780.2
37.5°	1705.0	1684.1	1682.3	1672.3	1672.3
40°	1594.3	1582.5	1576.2	1565.3	1563.5
42.5°	1489.1	1477.3	1466.5	1448.3	1444.7
45°	1376.7	1365.8	1351.3	1334.0	1335.0
47.5°	1265.1	1249.7	1236.1	1215.2	1212.5
50°	1149.9	1139.1	1119.1	1101.0	1100.1
52.5°	1042.0	1024.8	1006.7	984.9	984.9
55°	935.9	922.3	901.5	877.9	875.2
57.5°	834.3	821.6	798.1	780.8	776.3
60°	740.9	722.8	701.0	686.5	682.9
62.5°	647.5	631.2	614.9	600.4	599.5
65°	564.1	546.9	532.3	522.4	523.3
67.5°	488.8	474.3	458.0	455.3	456.2
70°	418.1	402.7	390.9	397.2	401.8
72.5°	351.0	342.8	334.6	343.7	350.1
75°	295.6	288.4	282.0	294.7	302.9
77.5°	244.9	239.4	238.5	249.4	256.7
80°	196.8	190.4	193.2	205.9	212.2
82.5°	149.6	145.1	146.0	161.4	166.0
85°	100.7	98.9	101.6	115.2	116.1
87.5°	53.5	53.5	55.3	63.5	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)