

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: P293381

Luminaire Tested: **24GR-LD5-56-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293381
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-L92765-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: 5106.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

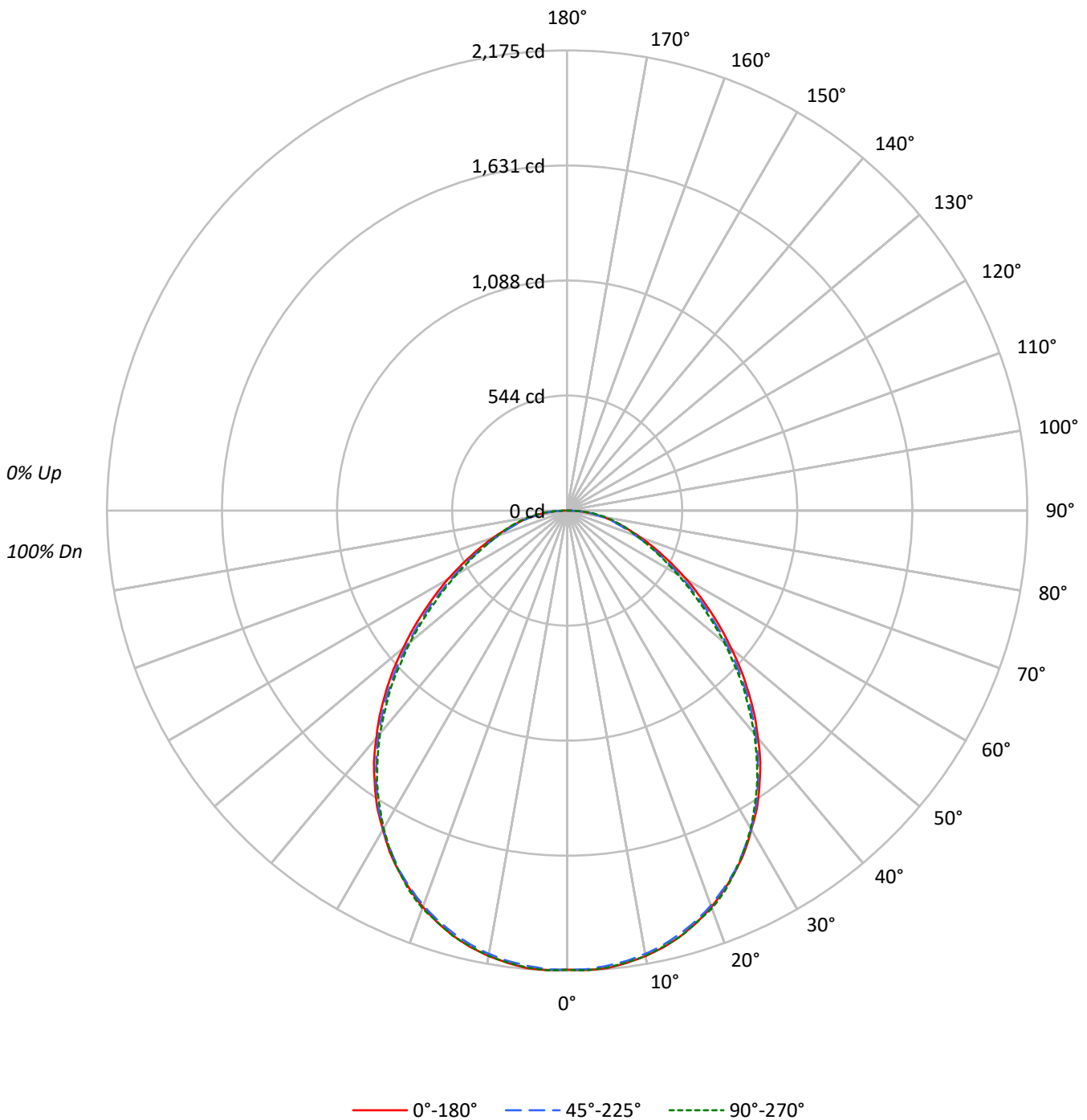
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2920	2920	2920
5°	2933	2917	2929
10°	2921	2907	2920
15°	2898	2883	2901
20°	2856	2844	2865
25°	2794	2787	2793
30°	2706	2701	2694
35°	2603	2584	2573
40°	2464	2436	2417
45°	2305	2263	2235
50°	2118	2062	2026
55°	1932	1861	1807
60°	1755	1660	1617
65°	1580	1492	1466
70°	1447	1353	1391
75°	1353	1290	1386
80°	1342	1317	1447
85°	1368	1380	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	4.0
10°-20°	583.9	11.4
20°-30°	862.6	16.9
30°-40°	980.7	19.2
40°-50°	915.8	17.9
50°-60°	712.2	13.9
60°-70°	472.6	9.3
70°-80°	273.5	5.4
80°-90°	99.5	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°	1651.8	32.4
0°-40°	2632.5	51.6
0°-60°	4260.5	83.4
0°-90°	5106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2172	2160	2160	2164	2168	206
15°	2081	2070	2070	2069	2082	586
25°	1882	1874	1877	1873	1881	865
35°	1585	1577	1573	1562	1567	990
45°	1212	1202	1189	1174	1175	934
55°	824	812	793	773	770	739
65°	496	481	468	460	460	496
75°	260	254	248	259	267	278
85°	89	87	89	101	102	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.0	2170.0	2170.0	2170.0	2170.0
2.5°	2173.2	2166.9	2170.0	2167.7	2174.8
5°	2171.6	2160.5	2159.7	2163.7	2168.5
7.5°	2156.5	2144.5	2146.9	2146.9	2154.9
10°	2138.1	2126.2	2127.7	2128.5	2137.3
12.5°	2113.4	2101.4	2102.2	2101.4	2110.2
15°	2080.7	2070.3	2069.5	2068.7	2082.3
17.5°	2040.8	2026.4	2031.2	2032.0	2039.2
20°	1994.5	1983.3	1986.5	1985.7	2000.9
22.5°	1939.4	1931.4	1933.8	1932.2	1946.6
25°	1881.9	1874.0	1877.1	1873.2	1881.1
27.5°	1817.3	1811.7	1808.5	1806.1	1811.7
30°	1741.5	1738.3	1738.3	1727.9	1734.3
32.5°	1669.6	1659.3	1659.3	1655.3	1651.3
35°	1585.0	1577.1	1573.1	1561.9	1566.7
37.5°	1500.4	1482.1	1480.5	1471.7	1471.7
40°	1403.1	1392.7	1387.1	1377.5	1375.9
42.5°	1310.5	1300.1	1290.5	1274.6	1271.4
45°	1211.5	1201.9	1189.2	1174.0	1174.8
47.5°	1113.4	1099.8	1087.8	1069.5	1067.1
50°	1012.0	1002.4	984.9	968.9	968.1
52.5°	917.0	901.9	885.9	866.7	866.7
55°	823.6	811.7	793.3	772.6	770.2
57.5°	734.3	723.1	702.3	687.2	683.2
60°	652.1	636.1	616.9	604.2	601.0
62.5°	569.8	555.5	541.1	528.3	527.5
65°	496.4	481.3	468.5	459.7	460.5
67.5°	430.2	417.4	403.0	400.6	401.4
70°	367.9	354.4	344.0	349.6	353.6
72.5°	308.9	301.7	294.5	302.5	308.1
75°	260.2	253.8	248.2	259.4	266.6
77.5°	215.5	210.7	209.9	219.5	225.9
80°	173.2	167.6	170.0	181.2	186.8
82.5°	131.7	127.7	128.5	142.1	146.1
85°	88.6	87.0	89.4	101.4	102.2
87.5°	47.1	47.1	48.7	55.9	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)