

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: P293881

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4424.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

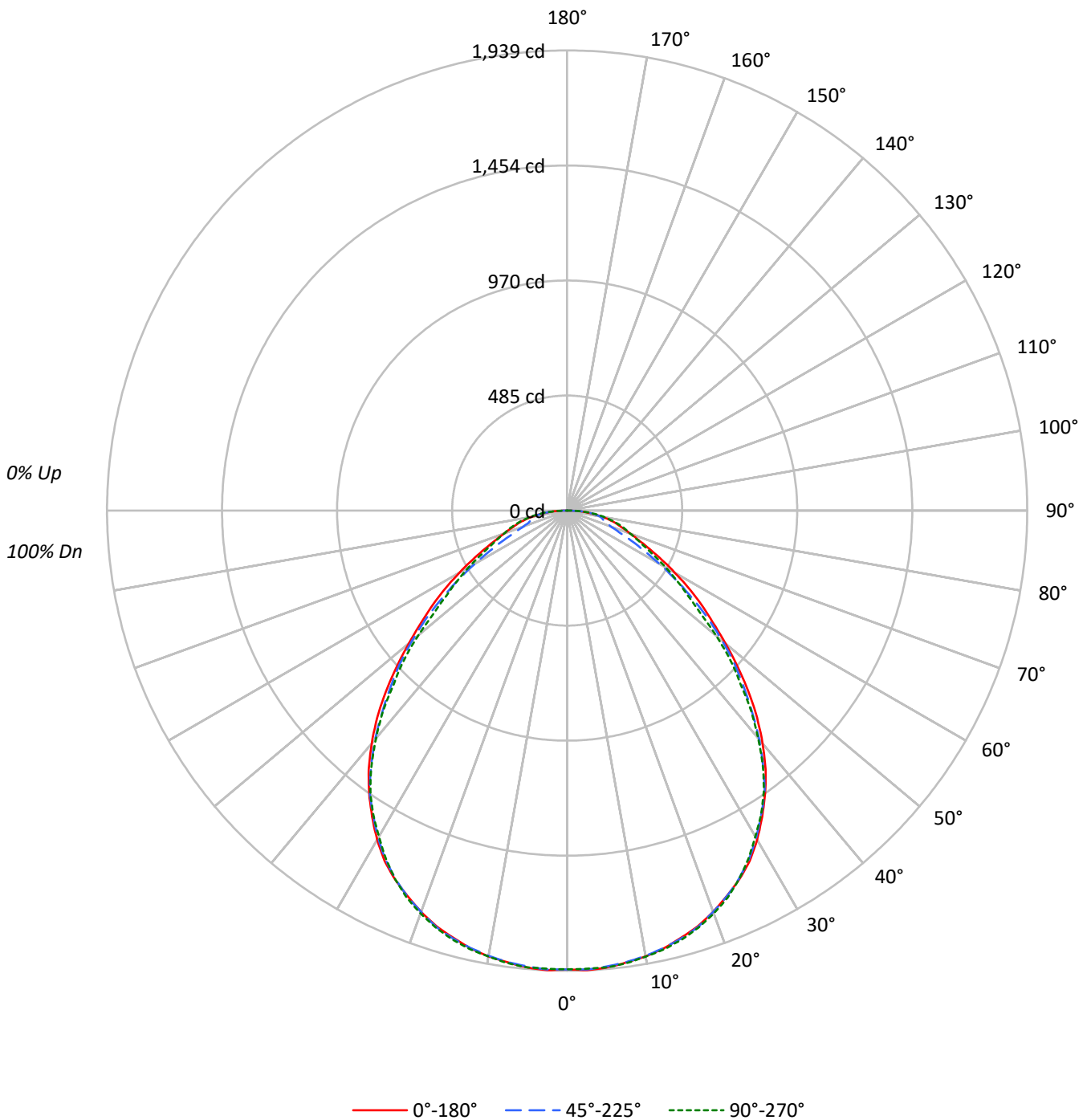
Input Watts (W): 38.874
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2601	2601	2601
5°	2610	2604	2609
10°	2606	2602	2607
15°	2594	2599	2605
20°	2576	2576	2586
25°	2547	2542	2544
30°	2488	2475	2463
35°	2390	2383	2374
40°	2251	2210	2200
45°	2059	2003	1966
50°	1820	1784	1715
55°	1619	1509	1451
60°	1410	1207	1294
65°	1217	936	1145
70°	1111	766	1108
75°	1119	825	1177
80°	1166	1075	1241
85°	1215	1278	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	4.1
10°-20°	525.9	11.9
20°-30°	787.2	17.8
30°-40°	899.6	20.3
40°-50°	813.3	18.4
50°-60°	585.1	13.2
60°-70°	339.2	7.7
70°-80°	201.2	4.5
80°-90°	89.1	2.0
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°	1496.5	33.8
0°-40°	2396.1	54.2
0°-60°	3794.5	85.8
0°-90°	4424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1932	1930	1928	1926	1932	184
15°	1862	1866	1866	1863	1870	526
25°	1716	1714	1712	1709	1714	789
35°	1455	1448	1451	1433	1445	907
45°	1082	1064	1052	1043	1033	831
55°	690	677	643	627	618	617
65°	382	340	294	328	360	386
75°	215	180	159	196	226	228
85°	79	85	83	95	89	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1933.1	1933.1	1933.1	1933.1	1933.1
2.5°	1938.7	1931.8	1935.2	1933.1	1932.4
5°	1932.4	1929.7	1928.3	1925.5	1931.8
7.5°	1920.0	1918.0	1918.6	1919.3	1923.5
10°	1907.6	1904.1	1904.8	1906.2	1908.3
12.5°	1888.3	1886.2	1886.9	1888.3	1893.1
15°	1862.0	1865.5	1865.5	1863.4	1870.3
17.5°	1835.8	1835.1	1838.6	1832.4	1842.0
20°	1799.2	1799.9	1799.2	1799.9	1806.1
22.5°	1757.8	1761.3	1759.2	1759.2	1766.1
25°	1715.7	1713.7	1712.3	1708.8	1713.7
27.5°	1665.4	1661.2	1657.8	1650.9	1654.3
30°	1601.2	1601.9	1592.9	1586.7	1585.3
32.5°	1529.4	1529.4	1521.1	1516.3	1520.4
35°	1454.9	1448.0	1450.7	1432.8	1445.2
37.5°	1374.1	1363.1	1356.9	1350.6	1354.8
40°	1281.6	1267.1	1258.2	1245.7	1252.6
42.5°	1184.3	1166.4	1155.3	1146.4	1149.1
45°	1082.2	1063.5	1052.5	1042.8	1033.2
47.5°	974.5	962.8	957.2	944.8	933.8
50°	869.6	865.5	852.3	842.0	819.2
52.5°	773.7	770.2	749.5	732.3	703.3
55°	690.2	677.0	643.2	626.7	618.4
57.5°	605.3	583.9	543.2	541.1	546.6
60°	523.8	497.6	448.6	459.6	481.0
62.5°	450.0	410.6	363.7	389.9	415.5
65°	382.3	339.6	294.0	328.5	359.6
67.5°	326.4	283.7	236.7	283.0	318.9
70°	282.3	238.8	194.6	247.8	281.6
72.5°	245.7	206.4	169.8	220.2	255.4
75°	215.3	180.1	158.7	196.0	226.4
77.5°	185.0	156.7	151.8	174.6	193.2
80°	150.5	137.3	138.7	153.2	160.1
82.5°	112.5	113.2	116.6	128.4	125.6
85°	78.7	84.9	82.8	95.2	89.0
87.5°	43.5	47.6	44.9	54.5	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)