

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: P293179

Luminaire Tested: **24GR-LD5-42-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293179
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-LD5-42-F125-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4444.0 lumens
Efficiency: N/A
Efficacy: 151.2 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

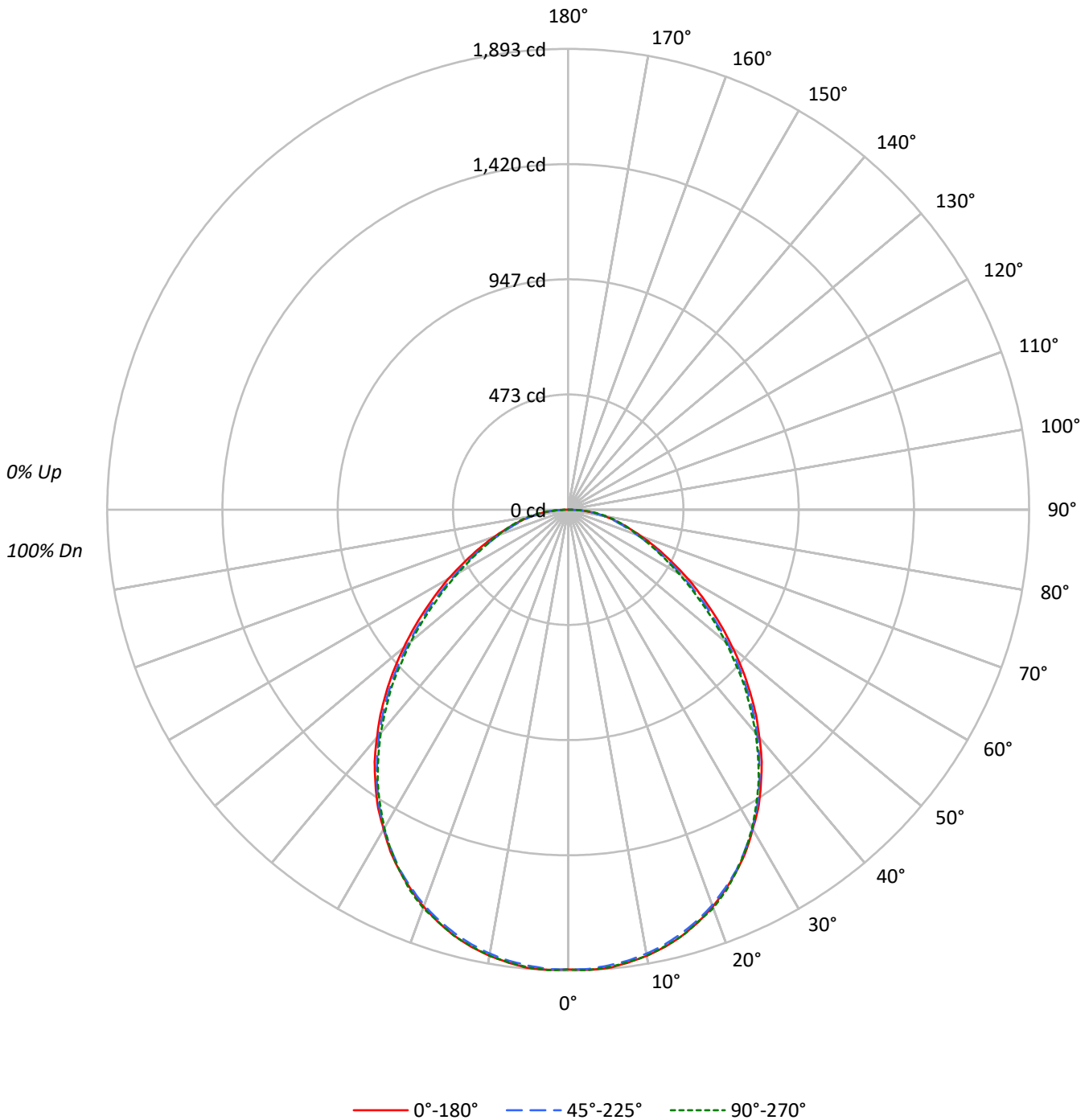
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2541	2541	2541
5°	2553	2539	2549
10°	2542	2530	2541
15°	2522	2509	2524
20°	2486	2476	2493
25°	2432	2426	2431
30°	2355	2350	2345
35°	2266	2249	2240
40°	2145	2121	2103
45°	2006	1969	1946
50°	1844	1794	1764
55°	1682	1620	1572
60°	1527	1445	1408
65°	1376	1298	1276
70°	1260	1178	1210
75°	1177	1123	1206
80°	1168	1147	1259
85°	1190	1201	1372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	4.0
10°-20°	508.2	11.4
20°-30°	750.7	16.9
30°-40°	853.5	19.2
40°-50°	797.1	17.9
50°-60°	619.9	13.9
60°-70°	411.3	9.3
70°-80°	238.0	5.4
80°-90°	86.5	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°	1437.7	32.4
0°-40°	2291.2	51.6
0°-60°	3708.1	83.4
0°-90°	4444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1890	1880	1880	1883	1887	179
15°	1811	1802	1801	1800	1812	510
25°	1638	1631	1634	1630	1637	753
35°	1380	1373	1369	1359	1364	861
45°	1054	1046	1035	1022	1022	812
55°	717	706	690	672	670	643
65°	432	419	408	400	401	432
75°	226	221	216	226	232	242
85°	77	76	78	88	89	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1888.7	1888.7	1888.7	1888.7	1888.7
2.5°	1891.5	1885.9	1888.7	1886.6	1892.9
5°	1890.1	1880.4	1879.7	1883.1	1887.3
7.5°	1876.9	1866.5	1868.6	1868.6	1875.5
10°	1860.9	1850.5	1851.9	1852.6	1860.2
12.5°	1839.4	1829.0	1829.7	1829.0	1836.6
15°	1810.9	1801.9	1801.2	1800.5	1812.3
17.5°	1776.2	1763.7	1767.8	1768.5	1774.8
20°	1735.9	1726.2	1728.9	1728.2	1741.4
22.5°	1688.0	1681.0	1683.1	1681.7	1694.2
25°	1637.9	1631.0	1633.8	1630.3	1637.2
27.5°	1581.7	1576.8	1574.0	1571.9	1576.8
30°	1515.7	1512.9	1512.9	1503.9	1509.4
32.5°	1453.2	1444.1	1444.1	1440.7	1437.2
35°	1379.5	1372.6	1369.1	1359.4	1363.6
37.5°	1305.9	1289.9	1288.5	1280.9	1280.9
40°	1221.2	1212.1	1207.3	1198.9	1197.5
42.5°	1140.6	1131.6	1123.2	1109.3	1106.5
45°	1054.4	1046.1	1035.0	1021.8	1022.5
47.5°	969.0	957.2	946.8	930.8	928.7
50°	880.8	872.5	857.2	843.3	842.6
52.5°	798.1	784.9	771.0	754.4	754.4
55°	716.9	706.4	690.5	672.4	670.3
57.5°	639.1	629.3	611.3	598.1	594.6
60°	567.5	553.6	536.9	525.8	523.1
62.5°	496.0	483.5	471.0	459.8	459.2
65°	432.1	418.9	407.7	400.1	400.8
67.5°	374.4	363.3	350.8	348.7	349.4
70°	320.2	308.4	299.4	304.2	307.7
72.5°	268.8	262.6	256.3	263.3	268.1
75°	226.4	220.9	216.0	225.8	232.0
77.5°	187.6	183.4	182.7	191.0	196.6
80°	150.7	145.9	148.0	157.7	162.5
82.5°	114.6	111.1	111.8	123.6	127.1
85°	77.1	75.7	77.8	88.2	88.9
87.5°	41.0	41.0	42.4	48.6	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)