

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: P293309

Luminaire Tested: **24GR-LD5-48-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293309
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-LD5-48-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4451.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

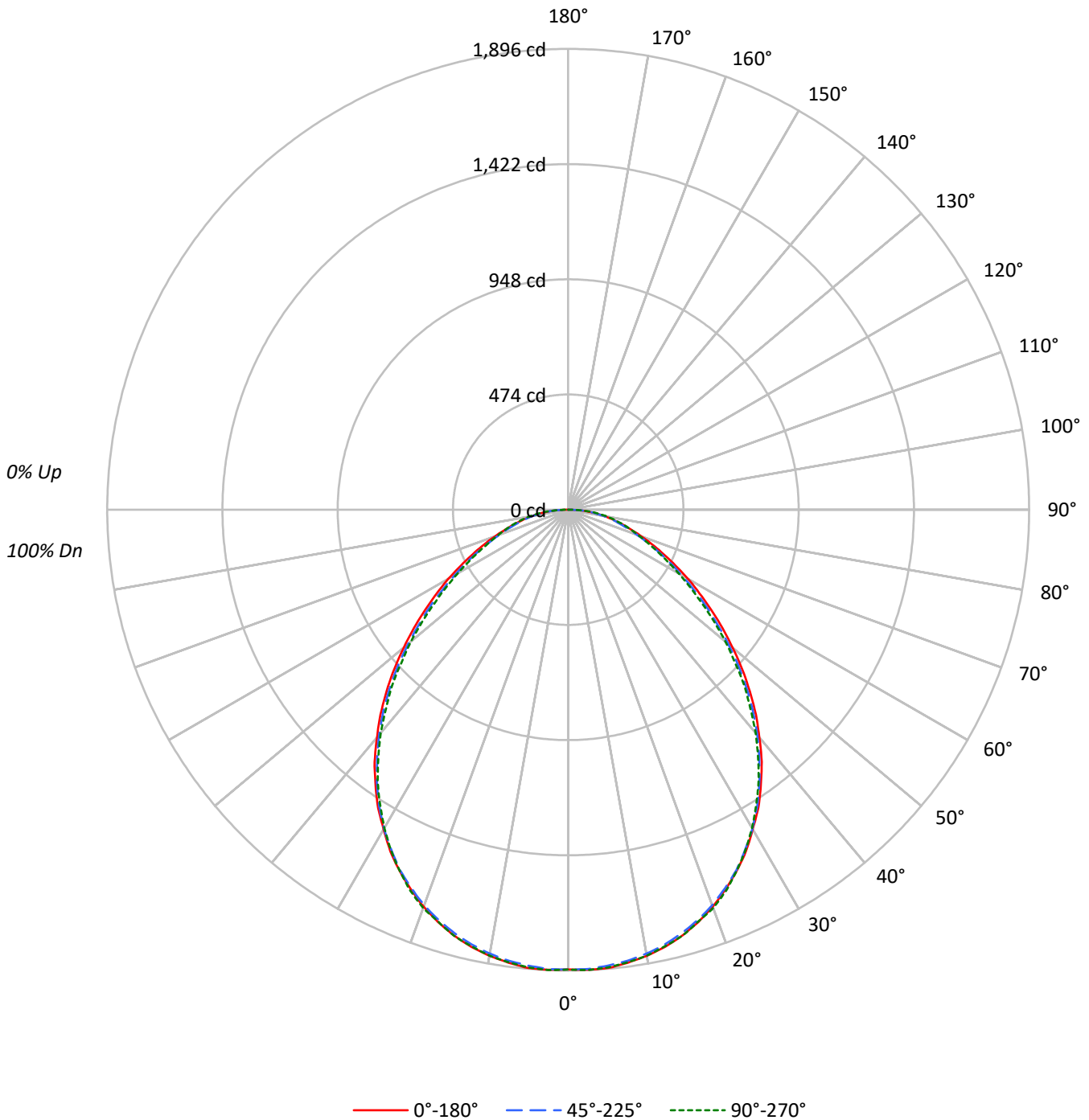
Input Watts (W): 33.682554
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2545	2545	2545
5°	2557	2543	2553
10°	2546	2534	2545
15°	2527	2513	2528
20°	2489	2480	2497
25°	2435	2429	2434
30°	2359	2354	2349
35°	2269	2252	2243
40°	2148	2124	2107
45°	2010	1972	1949
50°	1847	1797	1766
55°	1684	1622	1575
60°	1530	1447	1410
65°	1378	1300	1278
70°	1262	1180	1212
75°	1179	1125	1208
80°	1170	1148	1261
85°	1192	1203	1376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	4.0
10°-20°	509.0	11.4
20°-30°	751.9	16.9
30°-40°	854.9	19.2
40°-50°	798.3	17.9
50°-60°	620.8	13.9
60°-70°	411.9	9.3
70°-80°	238.4	5.4
80°-90°	86.7	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°	1439.9	32.4
0°-40°	2294.8	51.6
0°-60°	3714.0	83.4
0°-90°	4451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1893	1883	1883	1886	1890	180
15°	1814	1805	1804	1803	1815	511
25°	1640	1634	1636	1633	1640	754
35°	1382	1375	1371	1362	1366	863
45°	1056	1048	1037	1023	1024	814
55°	718	708	692	674	671	644
65°	433	420	408	401	401	432
75°	227	221	216	226	232	243
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°	1891.7	1891.7	1891.7	1891.7	1891.7
2.5°	1894.5	1888.9	1891.7	1889.6	1895.8
5°	1893.1	1883.3	1882.6	1886.1	1890.3
7.5°	1879.8	1869.4	1871.5	1871.5	1878.5
10°	1863.8	1853.4	1854.8	1855.5	1863.1
12.5°	1842.3	1831.8	1832.5	1831.8	1839.5
15°	1813.8	1804.7	1804.0	1803.3	1815.1
17.5°	1779.0	1766.4	1770.6	1771.3	1777.6
20°	1738.6	1728.9	1731.7	1731.0	1744.2
22.5°	1690.6	1683.7	1685.7	1684.3	1696.9
25°	1640.5	1633.6	1636.3	1632.9	1639.8
27.5°	1584.2	1579.3	1576.5	1574.4	1579.3
30°	1518.1	1515.3	1515.3	1506.2	1511.8
32.5°	1455.5	1446.4	1446.4	1442.9	1439.5
35°	1381.7	1374.8	1371.3	1361.5	1365.7
37.5°	1308.0	1292.0	1290.6	1282.9	1282.9
40°	1223.1	1214.0	1209.2	1200.8	1199.4
42.5°	1142.4	1133.3	1125.0	1111.1	1108.3
45°	1056.1	1047.8	1036.6	1023.4	1024.1
47.5°	970.5	958.7	948.3	932.3	930.2
50°	882.2	873.8	858.5	844.6	843.9
52.5°	799.4	786.2	772.3	755.6	755.6
55°	718.0	707.6	691.5	673.5	671.4
57.5°	640.1	630.3	612.2	599.0	595.5
60°	568.4	554.5	537.8	526.7	523.9
62.5°	496.7	484.2	471.7	460.6	459.9
65°	432.7	419.5	408.4	400.7	401.4
67.5°	375.0	363.9	351.3	349.3	349.9
70°	320.7	308.9	299.9	304.7	308.2
72.5°	269.2	263.0	256.7	263.7	268.5
75°	226.8	221.2	216.4	226.1	232.4
77.5°	187.8	183.7	183.0	191.3	196.9
80°	151.0	146.1	148.2	157.9	162.8
82.5°	114.8	111.3	112.0	123.8	127.3
85°	77.2	75.8	77.9	88.4	89.1
87.5°	41.0	41.0	42.4	48.7	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)