

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: P293242

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293242
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4449.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

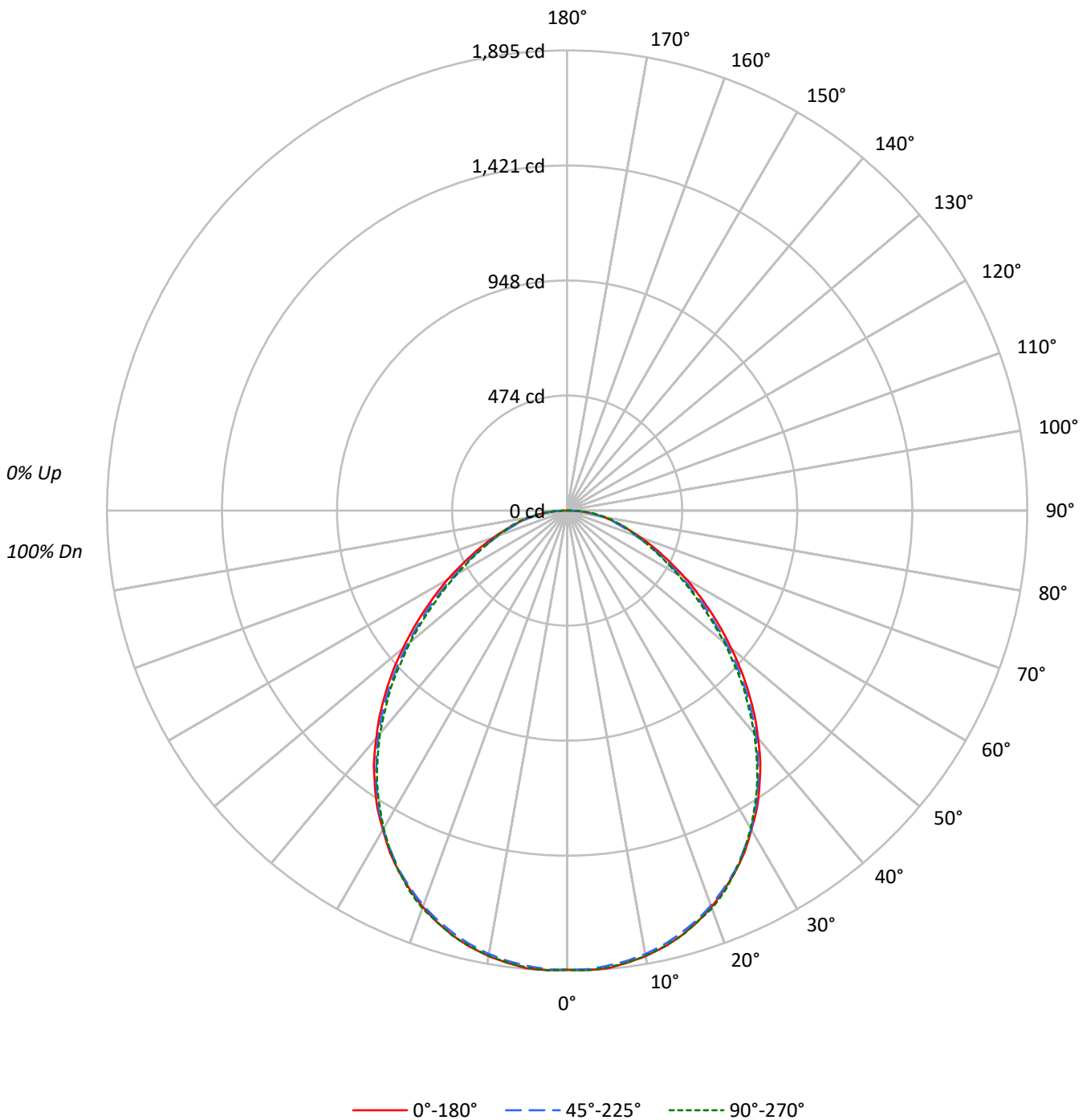
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	2544	2544	2544
5°	2556	2542	2552
10°	2545	2533	2544
15°	2525	2512	2527
20°	2488	2478	2496
25°	2434	2428	2433
30°	2357	2353	2348
35°	2269	2251	2242
40°	2147	2123	2106
45°	2009	1972	1948
50°	1846	1796	1766
55°	1684	1621	1574
60°	1529	1447	1409
65°	1377	1300	1278
70°	1261	1179	1212
75°	1179	1124	1208
80°	1169	1148	1261
85°	1192	1203	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	4.0
10°-20°	508.8	11.4
20°-30°	751.6	16.9
30°-40°	854.5	19.2
40°-50°	798.0	17.9
50°-60°	620.6	13.9
60°-70°	411.8	9.3
70°-80°	238.3	5.4
80°-90°	86.6	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°	1439.3	32.4
0°-40°	2293.8	51.6
0°-60°	3712.3	83.4
0°-90°	4449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1892	1882	1882	1885	1889	180
15°	1813	1804	1803	1802	1814	511
25°	1640	1633	1636	1632	1639	754
35°	1381	1374	1371	1361	1365	862
45°	1056	1047	1036	1023	1024	813
55°	718	707	691	673	671	644
65°	432	419	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°	1890.8	1890.8	1890.8	1890.8	1890.8
2.5°	1893.6	1888.0	1890.8	1888.7	1895.0
5°	1892.2	1882.5	1881.8	1885.3	1889.4
7.5°	1879.0	1868.6	1870.7	1870.7	1877.6
10°	1863.0	1852.6	1854.0	1854.7	1862.3
12.5°	1841.5	1831.0	1831.7	1831.0	1838.7
15°	1812.9	1803.9	1803.2	1802.5	1814.3
17.5°	1778.2	1765.7	1769.8	1770.5	1776.8
20°	1737.8	1728.1	1730.9	1730.2	1743.4
22.5°	1689.9	1682.9	1685.0	1683.6	1696.1
25°	1639.8	1632.8	1635.6	1632.1	1639.1
27.5°	1583.5	1578.6	1575.8	1573.7	1578.6
30°	1517.4	1514.6	1514.6	1505.6	1511.1
32.5°	1454.8	1445.8	1445.8	1442.3	1438.8
35°	1381.1	1374.1	1370.7	1360.9	1365.1
37.5°	1307.4	1291.4	1290.0	1282.3	1282.3
40°	1222.5	1213.5	1208.6	1200.3	1198.9
42.5°	1141.9	1132.8	1124.5	1110.6	1107.8
45°	1055.6	1047.3	1036.2	1023.0	1023.6
47.5°	970.1	958.3	947.8	931.9	929.8
50°	881.8	873.4	858.1	844.2	843.5
52.5°	799.0	785.8	771.9	755.2	755.2
55°	717.7	707.2	691.2	673.2	671.1
57.5°	639.8	630.0	612.0	598.7	595.3
60°	568.2	554.2	537.6	526.4	523.6
62.5°	496.5	484.0	471.5	460.4	459.7
65°	432.5	419.3	408.2	400.6	401.3
67.5°	374.8	363.7	351.2	349.1	349.8
70°	320.6	308.8	299.7	304.6	308.1
72.5°	269.1	262.9	256.6	263.6	268.4
75°	226.7	221.1	216.3	226.0	232.3
77.5°	187.8	183.6	182.9	191.2	196.8
80°	150.9	146.0	148.1	157.9	162.7
82.5°	114.7	111.3	112.0	123.8	127.3
85°	77.2	75.8	77.9	88.3	89.0
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)