

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: P293178

Luminaire Tested: **24GR-LD5-42-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293178  
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-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4402.0 lumens  
Efficiency: N/A  
Efficacy: 153.7 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

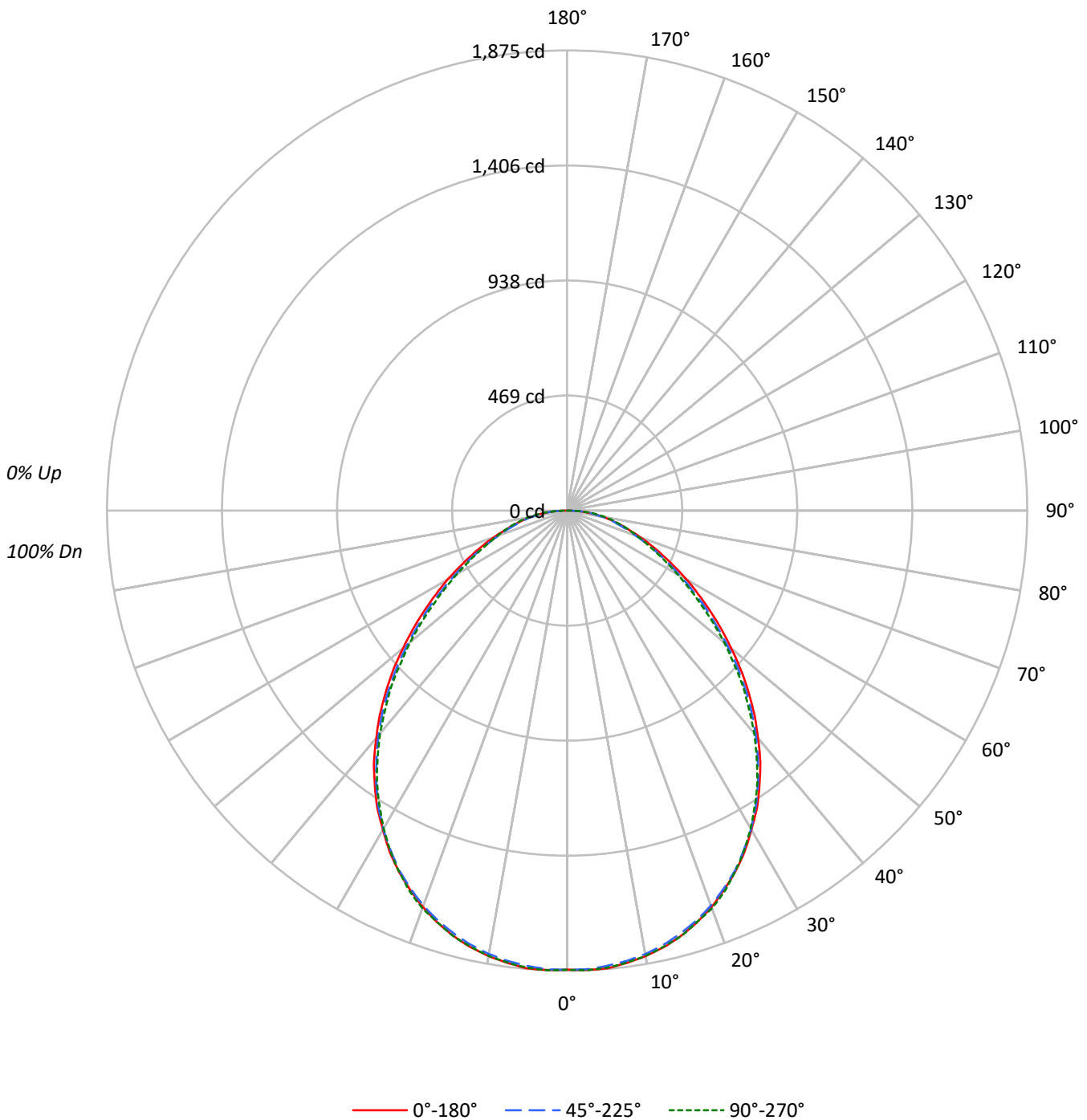
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2517	2517	2517
5°	2529	2515	2525
10°	2518	2506	2517
15°	2499	2485	2501
20°	2462	2452	2470
25°	2409	2403	2408
30°	2333	2328	2323
35°	2245	2228	2219
40°	2125	2100	2083
45°	1987	1951	1927
50°	1826	1777	1747
55°	1666	1604	1558
60°	1513	1431	1394
65°	1363	1286	1264
70°	1248	1167	1199
75°	1166	1112	1195
80°	1157	1136	1247
85°	1179	1190	1360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.1	4.0
10°-20°	503.4	11.4
20°-30°	743.7	16.9
30°-40°	845.5	19.2
40°-50°	789.5	17.9
50°-60°	614.0	13.9
60°-70°	407.4	9.3
70°-80°	235.8	5.4
80°-90°	85.7	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°	1424.1	32.4
0°-40°	2269.6	51.6
0°-60°	3673.1	83.4
0°-90°	4402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1872	1863	1862	1865	1870	178
15°	1794	1785	1784	1784	1795	505
25°	1622	1616	1618	1615	1622	746
35°	1366	1360	1356	1346	1351	853
45°	1044	1036	1025	1012	1013	805
55°	710	700	684	666	664	637
65°	428	415	404	396	397	428
75°	224	219	214	224	230	240
85°	76	75	77	87	88	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1873.6	1868.1	1870.8	1868.8	1875.0
5°	1872.2	1862.6	1861.9	1865.3	1869.5
7.5°	1859.2	1848.8	1850.9	1850.9	1857.8
10°	1843.3	1833.0	1834.4	1835.1	1842.6
12.5°	1822.0	1811.7	1812.4	1811.7	1819.2
15°	1793.8	1784.8	1784.2	1783.5	1795.2
17.5°	1759.4	1747.0	1751.1	1751.8	1758.0
20°	1719.5	1709.8	1712.6	1711.9	1725.0
22.5°	1672.0	1665.1	1667.2	1665.8	1678.2
25°	1622.5	1615.6	1618.3	1614.9	1621.8
27.5°	1566.7	1561.9	1559.2	1557.1	1561.9
30°	1501.4	1498.6	1498.6	1489.7	1495.2
32.5°	1439.4	1430.5	1430.5	1427.0	1423.6
35°	1366.5	1359.6	1356.2	1346.5	1350.7
37.5°	1293.6	1277.7	1276.4	1268.8	1268.8
40°	1209.6	1200.7	1195.9	1187.6	1186.2
42.5°	1129.8	1120.9	1112.6	1098.8	1096.1
45°	1044.5	1036.2	1025.2	1012.1	1012.8
47.5°	959.9	948.2	937.8	922.0	919.9
50°	872.5	864.2	849.1	835.3	834.6
52.5°	790.6	777.5	763.8	747.2	747.2
55°	710.1	699.8	683.9	666.0	664.0
57.5°	633.0	623.4	605.5	592.4	589.0
60°	562.1	548.4	531.9	520.9	518.1
62.5°	491.3	478.9	466.5	455.5	454.8
65°	428.0	414.9	403.9	396.3	397.0
67.5°	370.9	359.9	347.5	345.4	346.1
70°	317.2	305.5	296.6	301.4	304.8
72.5°	266.3	260.1	253.9	260.8	265.6
75°	224.3	218.8	214.0	223.6	229.8
77.5°	185.8	181.6	181.0	189.2	194.7
80°	149.3	144.5	146.6	156.2	161.0
82.5°	113.5	110.1	110.8	122.5	125.9
85°	76.4	75.0	77.1	87.4	88.1
87.5°	40.6	40.6	42.0	48.2	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)