

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: P293369

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293369  
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-L92765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3951.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

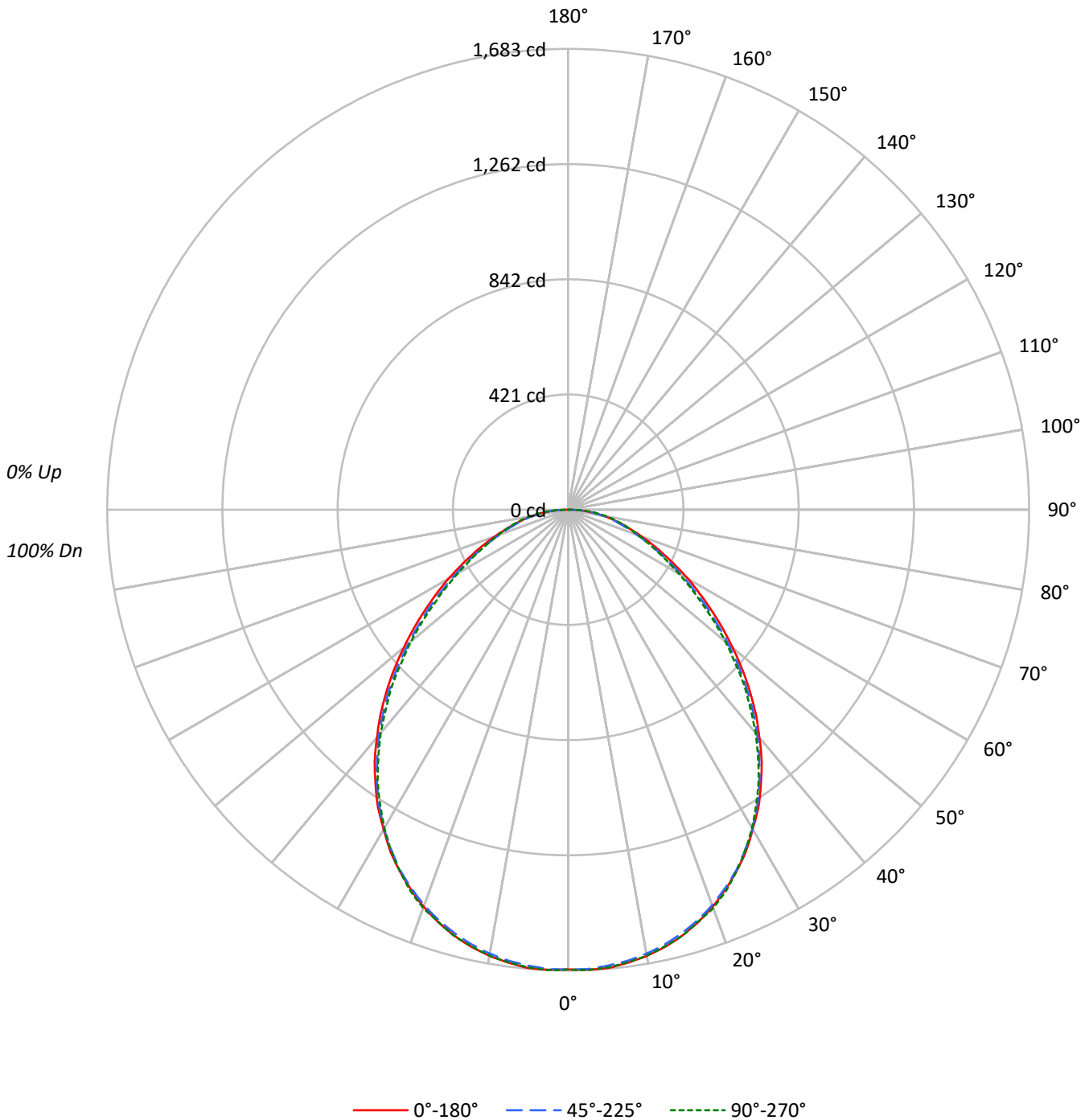
Input Watts (W): 32.55  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2259	2259	2259
5°	2270	2257	2266
10°	2260	2249	2260
15°	2243	2231	2244
20°	2210	2201	2217
25°	2162	2156	2161
30°	2094	2090	2085
35°	2015	1999	1991
40°	1907	1885	1870
45°	1784	1751	1730
50°	1639	1595	1568
55°	1495	1440	1398
60°	1358	1285	1251
65°	1223	1154	1134
70°	1120	1047	1076
75°	1046	999	1072
80°	1038	1019	1120
85°	1059	1068	1220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.9	4.0
10°-20°	451.8	11.4
20°-30°	667.5	16.9
30°-40°	758.8	19.2
40°-50°	708.6	17.9
50°-60°	551.1	13.9
60°-70°	365.7	9.3
70°-80°	211.6	5.4
80°-90°	76.9	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°	1278.2	32.4
0°-40°	2037.0	51.6
0°-60°	3296.8	83.4
0°-90°	3951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1680	1672	1671	1674	1678	159
15°	1610	1602	1601	1601	1611	454
25°	1456	1450	1452	1449	1456	670
35°	1226	1220	1217	1209	1212	766
45°	938	930	920	908	909	722
55°	637	628	614	598	596	572
65°	384	372	362	356	356	384
75°	201	196	192	201	206	215
85°	69	67	69	78	79	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1679.2	1679.2	1679.2	1679.2	1679.2
2.5°	1681.6	1676.7	1679.2	1677.3	1682.9
5°	1680.4	1671.8	1671.1	1674.2	1677.9
7.5°	1668.7	1659.4	1661.3	1661.3	1667.4
10°	1654.5	1645.2	1646.4	1647.1	1653.9
12.5°	1635.3	1626.1	1626.7	1626.1	1632.9
15°	1610.0	1602.0	1601.4	1600.7	1611.2
17.5°	1579.1	1568.0	1571.7	1572.3	1577.9
20°	1543.3	1534.7	1537.1	1536.5	1548.2
22.5°	1500.7	1494.5	1496.4	1495.1	1506.3
25°	1456.2	1450.1	1452.5	1449.4	1455.6
27.5°	1406.2	1401.9	1399.4	1397.6	1401.9
30°	1347.5	1345.1	1345.1	1337.0	1342.0
32.5°	1292.0	1283.9	1283.9	1280.8	1277.8
35°	1226.5	1220.3	1217.2	1208.6	1212.3
37.5°	1161.0	1146.8	1145.6	1138.8	1138.8
40°	1085.7	1077.7	1073.3	1065.9	1064.7
42.5°	1014.1	1006.0	998.6	986.3	983.8
45°	937.5	930.1	920.2	908.4	909.1
47.5°	861.5	851.0	841.7	827.5	825.7
50°	783.1	775.7	762.1	749.7	749.1
52.5°	709.6	697.9	685.5	670.7	670.7
55°	637.3	628.1	613.9	597.8	596.0
57.5°	568.2	559.5	543.5	531.7	528.6
60°	504.6	492.2	477.4	467.5	465.0
62.5°	440.9	429.8	418.7	408.8	408.2
65°	384.1	372.4	362.5	355.7	356.3
67.5°	332.9	323.0	311.9	310.0	310.6
70°	284.7	274.2	266.2	270.5	273.6
72.5°	239.0	233.4	227.9	234.1	238.4
75°	201.3	196.4	192.1	200.7	206.3
77.5°	166.7	163.0	162.4	169.8	174.8
80°	134.0	129.7	131.5	140.2	144.5
82.5°	101.9	98.8	99.4	109.9	113.0
85°	68.6	67.3	69.2	78.4	79.0
87.5°	36.4	36.4	37.7	43.2	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)