

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: P293235

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293235  
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-L82765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4094.0 lumens  
Efficiency: N/A  
Efficacy: 145.8 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

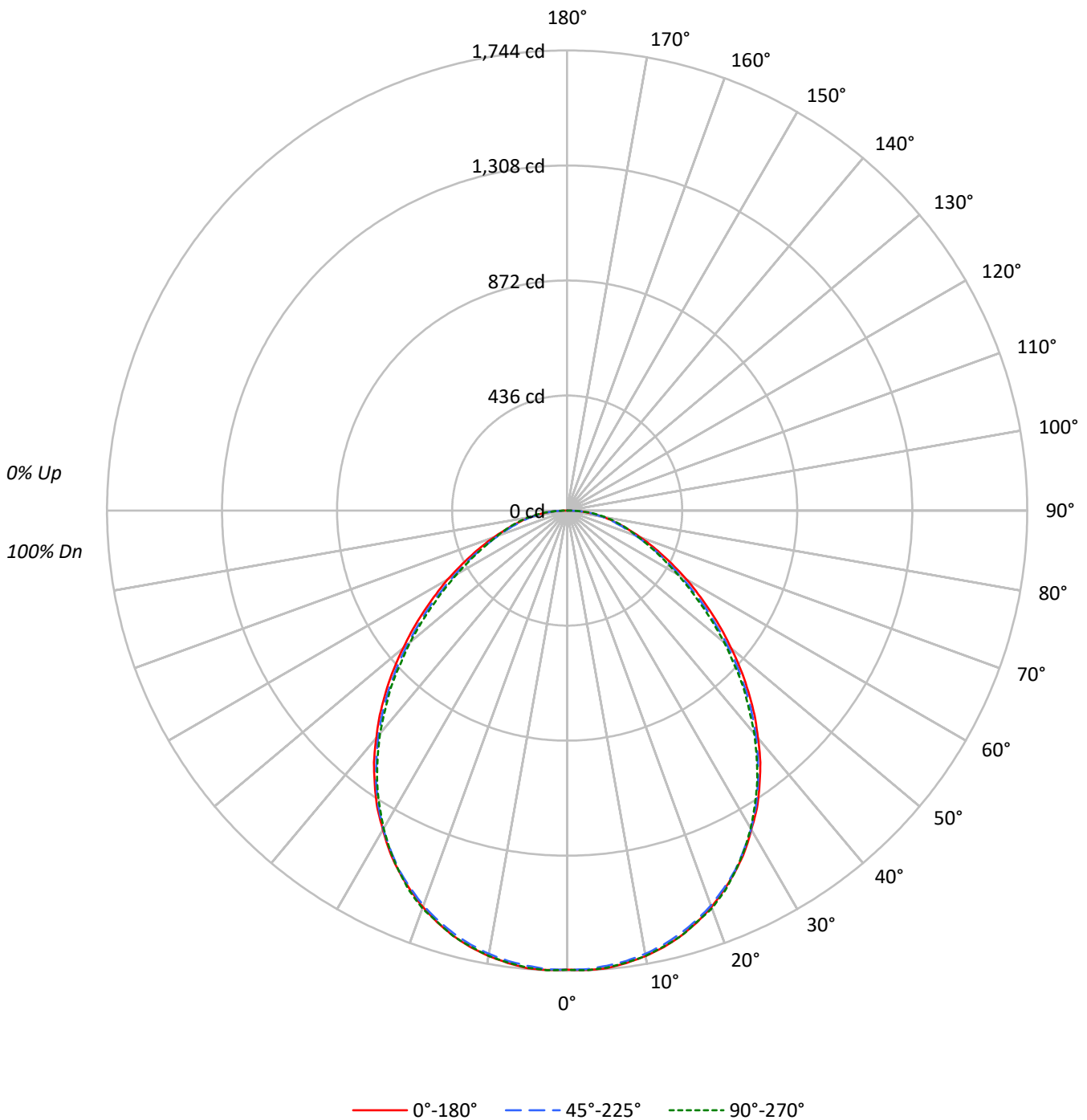
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2341	2341	2341
5°	2352	2339	2348
10°	2342	2331	2341
15°	2324	2311	2326
20°	2290	2281	2297
25°	2240	2234	2239
30°	2169	2165	2160
35°	2088	2072	2063
40°	1976	1953	1938
45°	1848	1814	1792
50°	1698	1653	1625
55°	1549	1492	1449
60°	1407	1331	1297
65°	1267	1196	1175
70°	1161	1085	1115
75°	1084	1035	1111
80°	1076	1056	1160
85°	1096	1107	1264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	4.0
10°-20°	468.2	11.4
20°-30°	691.6	16.9
30°-40°	786.3	19.2
40°-50°	734.3	17.9
50°-60°	571.0	13.9
60°-70°	378.9	9.3
70°-80°	219.3	5.4
80°-90°	79.7	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°	1324.5	32.4
0°-40°	2110.8	51.6
0°-60°	3416.1	83.4
0°-90°	4094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1741	1732	1732	1735	1739	165
15°	1668	1660	1659	1659	1670	470
25°	1509	1502	1505	1502	1508	694
35°	1271	1264	1261	1252	1256	793
45°	971	964	954	941	942	748
55°	660	651	636	619	618	592
65°	398	386	376	369	369	398
75°	209	204	199	208	214	223
85°	71	70	72	81	82	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1739.9	1739.9	1739.9	1739.9	1739.9
2.5°	1742.5	1737.4	1739.9	1738.0	1743.8
5°	1741.2	1732.3	1731.6	1734.8	1738.7
7.5°	1729.1	1719.5	1721.4	1721.4	1727.8
10°	1714.4	1704.8	1706.0	1706.7	1713.7
12.5°	1694.5	1684.9	1685.6	1684.9	1692.0
15°	1668.3	1660.0	1659.3	1658.7	1669.6
17.5°	1636.3	1624.8	1628.6	1629.2	1635.0
20°	1599.2	1590.2	1592.8	1592.1	1604.3
22.5°	1555.0	1548.6	1550.5	1549.3	1560.8
25°	1508.9	1502.5	1505.1	1501.9	1508.3
27.5°	1457.1	1452.6	1450.1	1448.1	1452.6
30°	1396.3	1393.8	1393.8	1385.4	1390.6
32.5°	1338.7	1330.4	1330.4	1327.2	1324.0
35°	1270.9	1264.5	1261.3	1252.3	1256.2
37.5°	1203.1	1188.3	1187.1	1180.0	1180.0
40°	1125.0	1116.7	1112.2	1104.5	1103.2
42.5°	1050.8	1042.4	1034.8	1022.0	1019.4
45°	971.4	963.7	953.5	941.3	942.0
47.5°	892.7	881.8	872.2	857.5	855.6
50°	811.4	803.7	789.7	776.9	776.2
52.5°	735.3	723.1	710.3	695.0	695.0
55°	660.4	650.8	636.1	619.4	617.5
57.5°	588.7	579.8	563.1	551.0	547.8
60°	522.8	510.0	494.7	484.4	481.9
62.5°	456.9	445.4	433.9	423.6	423.0
65°	398.0	385.9	375.6	368.6	369.2
67.5°	344.9	334.7	323.2	321.2	321.9
70°	295.0	284.1	275.8	280.3	283.5
72.5°	247.7	241.9	236.1	242.5	247.0
75°	208.6	203.5	199.0	208.0	213.7
77.5°	172.8	168.9	168.3	176.0	181.1
80°	138.9	134.4	136.3	145.3	149.7
82.5°	105.6	102.4	103.0	113.9	117.1
85°	71.0	69.8	71.7	81.3	81.9
87.5°	37.8	37.8	39.0	44.8	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)