

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: P293236

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293236  
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-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: 4184.0 lumens  
Efficiency: N/A  
Efficacy: 147.5 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

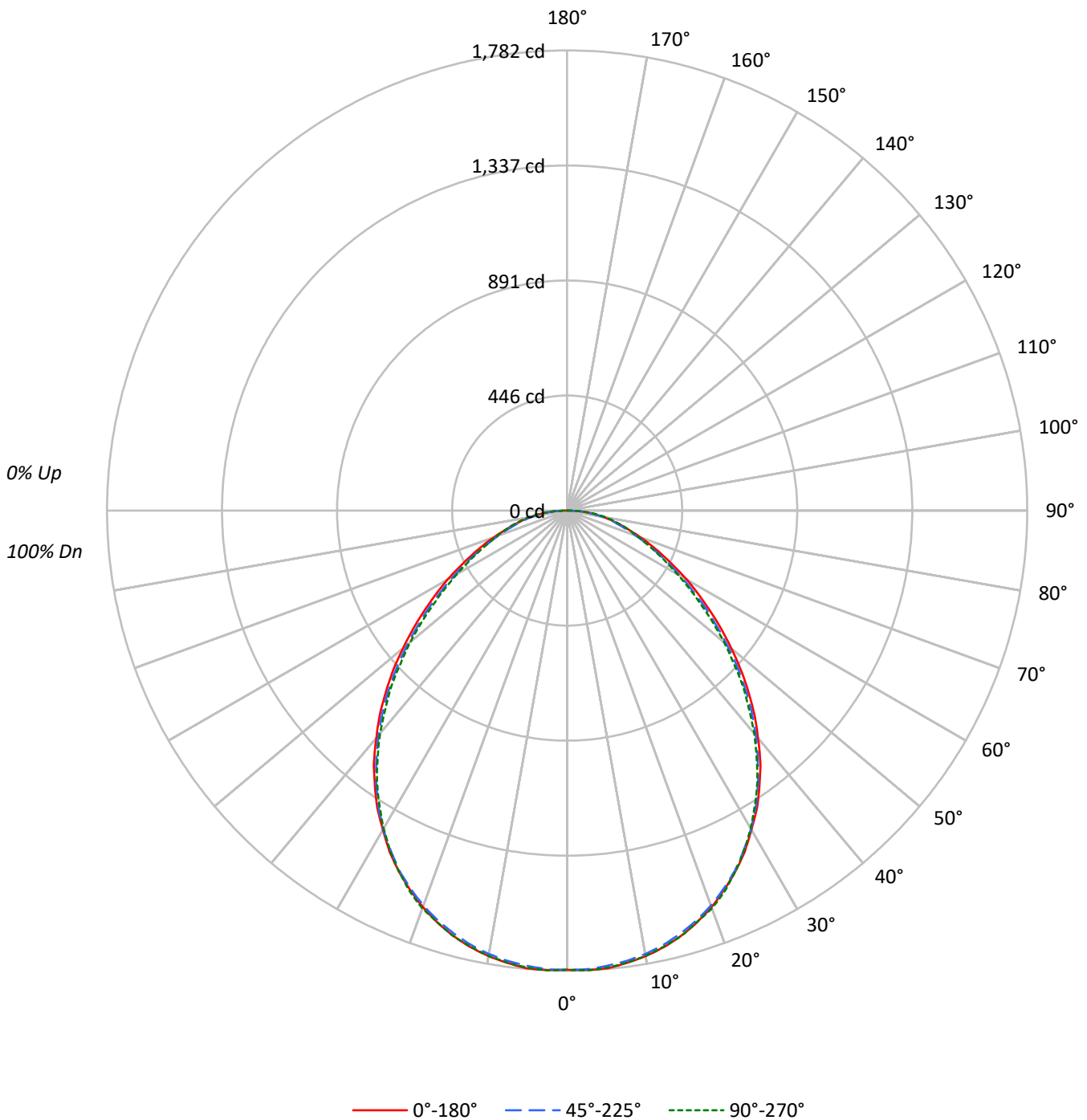
Input Watts (W): 28.365  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2393	2393	2393
5°	2403	2390	2400
10°	2394	2382	2393
15°	2375	2362	2377
20°	2340	2331	2348
25°	2289	2284	2288
30°	2217	2213	2208
35°	2133	2117	2109
40°	2019	1996	1980
45°	1889	1854	1832
50°	1736	1689	1661
55°	1583	1525	1480
60°	1438	1360	1325
65°	1295	1222	1202
70°	1186	1109	1140
75°	1108	1057	1135
80°	1099	1079	1185
85°	1121	1130	1292



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.3	4.0
10°-20°	478.5	11.4
20°-30°	706.8	16.9
30°-40°	803.6	19.2
40°-50°	750.4	17.9
50°-60°	583.6	13.9
60°-70°	387.2	9.3
70°-80°	224.1	5.4
80°-90°	81.5	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°	1353.6	32.4
0°-40°	2157.2	51.6
0°-60°	3491.2	83.4
0°-90°	4184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1780	1770	1770	1773	1777	169
15°	1705	1696	1696	1695	1706	480
25°	1542	1536	1538	1535	1542	709
35°	1299	1292	1289	1280	1284	811
45°	993	985	974	962	963	765
55°	675	665	650	633	631	605
65°	407	394	384	377	377	407
75°	213	208	203	212	218	228
85°	73	71	73	83	84	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1778.2	1778.2	1778.2	1778.2	1778.2
2.5°	1780.8	1775.6	1778.2	1776.2	1782.1
5°	1779.5	1770.4	1769.7	1773.0	1776.9
7.5°	1767.1	1757.3	1759.2	1759.2	1765.8
10°	1752.0	1742.2	1743.5	1744.2	1751.4
12.5°	1731.8	1722.0	1722.6	1722.0	1729.2
15°	1705.0	1696.5	1695.8	1695.1	1706.3
17.5°	1672.3	1660.5	1664.4	1665.1	1670.9
20°	1634.3	1625.2	1627.8	1627.1	1639.6
22.5°	1589.2	1582.7	1584.6	1583.3	1595.1
25°	1542.1	1535.6	1538.2	1534.9	1541.5
27.5°	1489.1	1484.6	1481.9	1480.0	1484.6
30°	1427.0	1424.4	1424.4	1415.9	1421.1
32.5°	1368.1	1359.6	1359.6	1356.4	1353.1
35°	1298.8	1292.3	1289.0	1279.9	1283.8
37.5°	1229.5	1214.5	1213.2	1206.0	1206.0
40°	1149.7	1141.2	1136.6	1128.8	1127.5
42.5°	1073.9	1065.4	1057.5	1044.4	1041.8
45°	992.8	984.9	974.4	962.0	962.7
47.5°	912.3	901.2	891.4	876.3	874.4
50°	829.3	821.4	807.0	793.9	793.3
52.5°	751.4	739.0	725.9	710.2	710.2
55°	674.9	665.1	650.1	633.1	631.1
57.5°	601.7	592.5	575.5	563.1	559.8
60°	534.3	521.2	505.5	495.1	492.5
62.5°	466.9	455.2	443.4	432.9	432.3
65°	406.8	394.4	383.9	376.7	377.4
67.5°	352.5	342.0	330.3	328.3	329.0
70°	301.5	290.4	281.9	286.4	289.7
72.5°	253.1	247.2	241.3	247.9	252.4
75°	213.2	208.0	203.4	212.5	218.4
77.5°	176.6	172.7	172.0	179.8	185.1
80°	141.9	137.3	139.3	148.5	153.0
82.5°	107.9	104.6	105.3	116.4	119.7
85°	72.6	71.3	73.2	83.1	83.7
87.5°	38.6	38.6	39.9	45.8	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)