

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: P293230

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293230  
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-LD5-38-F125-UNV-L82765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4001.0 lumens  
Efficiency: N/A  
Efficacy: 153.1 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

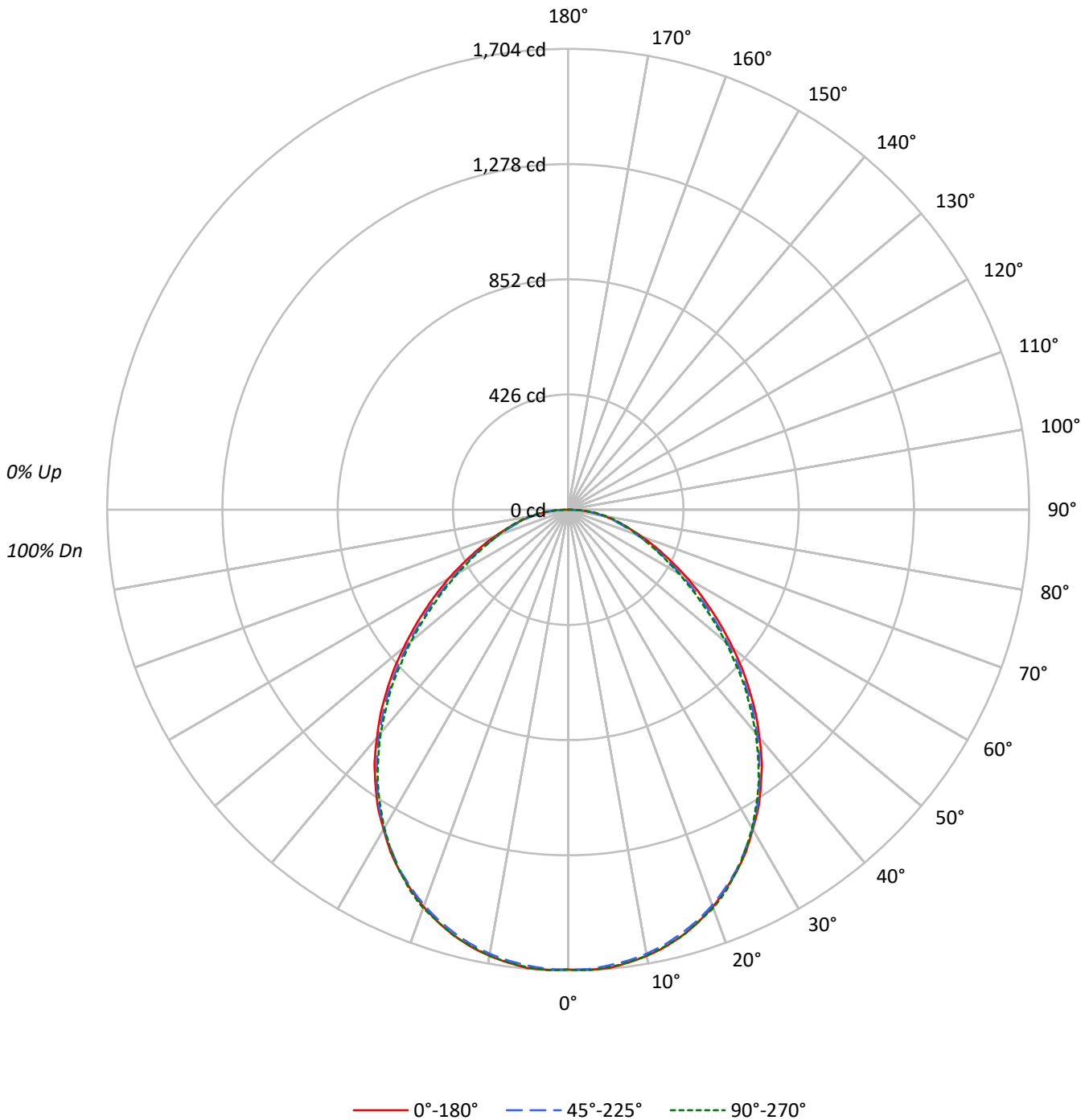
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2288	2288	2288
5°	2298	2286	2295
10°	2289	2278	2288
15°	2271	2259	2273
20°	2238	2229	2245
25°	2189	2184	2188
30°	2120	2116	2111
35°	2040	2025	2016
40°	1931	1909	1894
45°	1806	1773	1752
50°	1660	1615	1588
55°	1514	1458	1416
60°	1375	1301	1267
65°	1238	1169	1149
70°	1134	1060	1090
75°	1060	1011	1086
80°	1051	1032	1134
85°	1071	1081	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	4.0
10°-20°	457.5	11.4
20°-30°	675.9	16.9
30°-40°	768.4	19.2
40°-50°	717.6	17.9
50°-60°	558.1	13.9
60°-70°	370.3	9.3
70°-80°	214.3	5.4
80°-90°	77.9	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°	1294.4	32.4
0°-40°	2062.8	51.6
0°-60°	3338.5	83.4
0°-90°	4001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1702	1693	1692	1695	1699	161
15°	1630	1622	1622	1621	1632	459
25°	1475	1468	1471	1468	1474	678
35°	1242	1236	1233	1224	1228	775
45°	949	942	932	920	921	731
55°	645	636	622	605	604	579
65°	389	377	367	360	361	389
75°	204	199	194	203	209	218
85°	69	68	70	79	80	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.4	1700.4	1700.4	1700.4	1700.4
2.5°	1702.9	1697.9	1700.4	1698.5	1704.2
5°	1701.7	1692.9	1692.3	1695.4	1699.2
7.5°	1689.8	1680.4	1682.3	1682.3	1688.5
10°	1675.4	1666.0	1667.3	1667.9	1674.8
12.5°	1656.0	1646.6	1647.3	1646.6	1653.5
15°	1630.4	1622.3	1621.6	1621.0	1631.6
17.5°	1599.1	1587.9	1591.6	1592.2	1597.9
20°	1562.8	1554.1	1556.6	1556.0	1567.8
22.5°	1519.7	1513.4	1515.3	1514.1	1525.3
25°	1474.7	1468.4	1470.9	1467.8	1474.0
27.5°	1424.0	1419.6	1417.1	1415.2	1419.6
30°	1364.6	1362.1	1362.1	1354.0	1359.0
32.5°	1308.3	1300.2	1300.2	1297.1	1293.9
35°	1242.0	1235.8	1232.6	1223.9	1227.6
37.5°	1175.7	1161.3	1160.1	1153.2	1153.2
40°	1099.4	1091.3	1086.9	1079.4	1078.2
42.5°	1026.9	1018.8	1011.2	998.7	996.2
45°	949.3	941.8	931.8	919.9	920.6
47.5°	872.4	861.8	852.4	838.0	836.1
50°	793.0	785.5	771.7	759.2	758.6
52.5°	718.6	706.7	694.2	679.2	679.2
55°	645.4	636.0	621.6	605.4	603.5
57.5°	575.4	566.6	550.3	538.5	535.3
60°	510.9	498.4	483.4	473.4	470.9
62.5°	446.5	435.3	424.0	414.0	413.4
65°	389.0	377.1	367.1	360.2	360.8
67.5°	337.1	327.1	315.8	313.9	314.6
70°	288.3	277.7	269.5	273.9	277.0
72.5°	242.0	236.4	230.8	237.0	241.4
75°	203.9	198.9	194.5	203.3	208.9
77.5°	168.9	165.1	164.5	172.0	177.0
80°	135.7	131.3	133.2	142.0	146.3
82.5°	103.2	100.1	100.7	111.3	114.4
85°	69.4	68.2	70.0	79.4	80.0
87.5°	36.9	36.9	38.1	43.8	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)