

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: P293387

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293387  
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-LD5-64-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: 5214.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

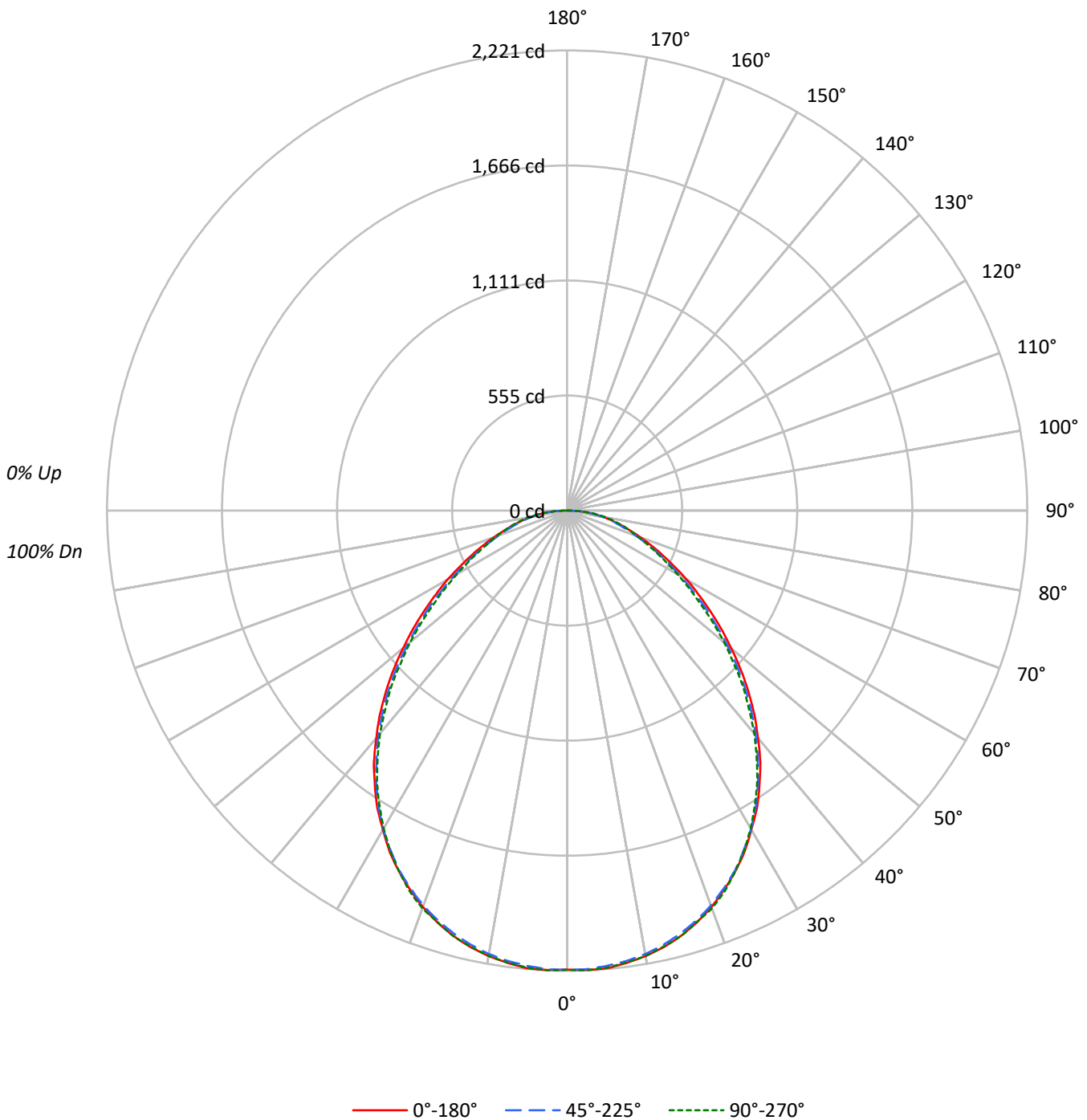
Input Watts (W): 45.477  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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°	2981	2981	2981
5°	2995	2979	2991
10°	2983	2969	2982
15°	2960	2944	2962
20°	2916	2904	2926
25°	2853	2846	2852
30°	2763	2758	2751
35°	2659	2638	2628
40°	2516	2488	2468
45°	2354	2311	2283
50°	2163	2105	2069
55°	1973	1900	1845
60°	1792	1695	1651
65°	1614	1523	1497
70°	1478	1382	1420
75°	1381	1318	1415
80°	1371	1345	1478
85°	1397	1409	1610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.7	4.0
10°-20°	596.2	11.4
20°-30°	880.8	16.9
30°-40°	1001.4	19.2
40°-50°	935.2	17.9
50°-60°	727.3	13.9
60°-70°	482.5	9.3
70°-80°	279.3	5.4
80°-90°	101.5	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°	1686.8	32.4
0°-40°	2688.2	51.6
0°-60°	4350.6	83.4
0°-90°	5214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5214.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2216	2216	2216	2216	2216	
5°	2218	2206	2205	2209	2214	210
15°	2125	2114	2113	2112	2126	599
25°	1922	1914	1917	1913	1921	884
35°	1619	1610	1606	1595	1600	1011
45°	1237	1227	1214	1199	1200	953
55°	841	829	810	789	786	754
65°	507	491	478	469	470	507
75°	266	259	254	265	272	284
85°	90	89	91	104	104	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2219.2	2212.7	2215.9	2213.5	2220.8
5°	2217.6	2206.2	2205.4	2209.4	2214.3
7.5°	2202.1	2189.9	2192.3	2192.3	2200.5
10°	2183.3	2171.1	2172.8	2173.6	2182.5
12.5°	2158.1	2145.9	2146.7	2145.9	2154.8
15°	2124.7	2114.1	2113.3	2112.4	2126.3
17.5°	2083.9	2069.3	2074.1	2075.0	2082.3
20°	2036.7	2025.2	2028.5	2027.7	2043.2
22.5°	1980.4	1972.3	1974.7	1973.1	1987.8
25°	1921.7	1913.6	1916.8	1912.8	1920.9
27.5°	1855.7	1850.0	1846.8	1844.3	1850.0
30°	1778.3	1775.0	1775.0	1764.4	1771.0
32.5°	1705.0	1694.4	1694.4	1690.3	1686.2
35°	1618.6	1610.4	1606.3	1594.9	1599.8
37.5°	1532.2	1513.4	1511.8	1502.8	1502.8
40°	1432.7	1422.2	1416.4	1406.7	1405.0
42.5°	1338.2	1327.6	1317.8	1301.5	1298.3
45°	1237.2	1227.4	1214.3	1198.8	1199.7
47.5°	1136.9	1123.1	1110.8	1092.1	1089.6
50°	1033.4	1023.6	1005.7	989.4	988.6
52.5°	936.4	920.9	904.6	885.1	885.1
55°	841.1	828.8	810.1	788.9	786.5
57.5°	749.8	738.4	717.2	701.7	697.6
60°	665.8	649.5	630.0	616.9	613.7
62.5°	581.9	567.2	552.6	539.5	538.7
65°	506.9	491.4	478.4	469.4	470.2
67.5°	439.3	426.2	411.6	409.1	409.9
70°	375.7	361.9	351.3	357.0	361.0
72.5°	315.4	308.1	300.7	308.9	314.6
75°	265.7	259.2	253.5	264.9	272.2
77.5°	220.0	215.2	214.3	224.1	230.6
80°	176.9	171.1	173.6	185.0	190.7
82.5°	134.5	130.4	131.2	145.1	149.1
85°	90.5	88.8	91.3	103.5	104.3
87.5°	48.1	48.1	49.7	57.0	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)