

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: P293388

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293388  
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-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5475.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 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

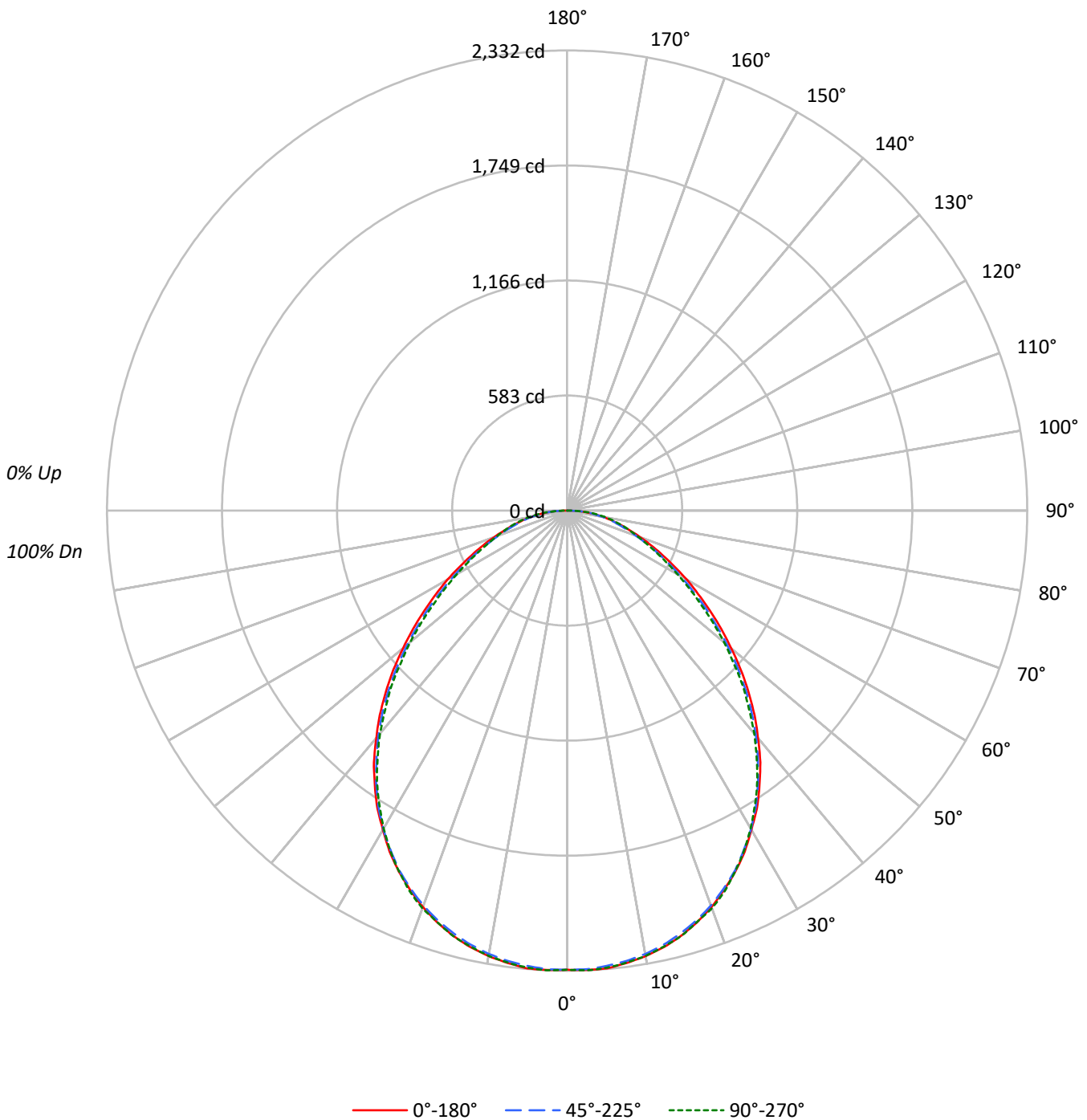
Input Watts (W): 46.035  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3131	3131	3131
5°	3145	3128	3140
10°	3132	3117	3131
15°	3108	3091	3110
20°	3062	3050	3072
25°	2996	2988	2995
30°	2901	2896	2889
35°	2792	2770	2759
40°	2643	2612	2591
45°	2472	2426	2397
50°	2271	2210	2173
55°	2072	1995	1937
60°	1882	1780	1734
65°	1695	1599	1572
70°	1552	1451	1491
75°	1450	1383	1486
80°	1439	1413	1552
85°	1467	1479	1690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	4.0
10°-20°	626.1	11.4
20°-30°	924.9	16.9
30°-40°	1051.5	19.2
40°-50°	982.0	17.9
50°-60°	763.7	13.9
60°-70°	506.7	9.3
70°-80°	293.2	5.4
80°-90°	106.6	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°	1771.2	32.4
0°-40°	2822.8	51.6
0°-60°	4568.4	83.4
0°-90°	5475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5475.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2327	2327	2327	2327	2327	
5°	2329	2317	2316	2320	2325	221
15°	2231	2220	2219	2218	2233	629
25°	2018	2009	2013	2008	2017	928
35°	1700	1691	1687	1675	1680	1061
45°	1299	1289	1275	1259	1260	1001
55°	883	870	851	828	826	792
65°	532	516	502	493	494	532
75°	279	272	266	278	286	298
85°	95	93	96	109	110	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2326.9	2326.9	2326.9	2326.9	2326.9
2.5°	2330.3	2323.5	2326.9	2324.3	2332.0
5°	2328.6	2316.6	2315.7	2320.0	2325.2
7.5°	2312.3	2299.5	2302.1	2302.1	2310.6
10°	2292.6	2279.8	2281.5	2282.4	2291.8
12.5°	2266.1	2253.3	2254.1	2253.3	2262.7
15°	2231.0	2219.9	2219.0	2218.2	2232.7
17.5°	2188.2	2172.8	2178.0	2178.8	2186.5
20°	2138.6	2126.6	2130.0	2129.2	2145.4
22.5°	2079.6	2071.0	2073.6	2071.9	2087.3
25°	2017.9	2009.4	2012.8	2008.5	2017.1
27.5°	1948.6	1942.6	1939.2	1936.6	1942.6
30°	1867.3	1863.9	1863.9	1852.8	1859.6
32.5°	1790.3	1779.2	1779.2	1774.9	1770.6
35°	1699.6	1691.0	1686.7	1674.8	1679.9
37.5°	1608.9	1589.2	1587.5	1578.1	1578.1
40°	1504.5	1493.3	1487.4	1477.1	1475.4
42.5°	1405.2	1394.1	1383.8	1366.7	1363.3
45°	1299.1	1288.8	1275.1	1258.9	1259.7
47.5°	1193.8	1179.3	1166.4	1146.7	1144.2
50°	1085.1	1074.9	1056.0	1038.9	1038.1
52.5°	983.3	967.0	949.9	929.4	929.4
55°	883.2	870.3	850.6	828.4	825.8
57.5°	787.3	775.3	753.1	736.8	732.6
60°	699.2	682.1	661.5	647.8	644.4
62.5°	611.0	595.6	580.2	566.5	565.7
65°	532.3	516.0	502.3	492.9	493.8
67.5°	461.3	447.6	432.2	429.6	430.5
70°	394.5	380.0	368.8	374.8	379.1
72.5°	331.2	323.5	315.8	324.3	330.3
75°	279.0	272.1	266.1	278.1	285.8
77.5°	231.1	225.9	225.1	235.3	242.2
80°	185.7	179.7	182.3	194.3	200.3
82.5°	141.2	136.9	137.8	152.3	156.6
85°	95.0	93.3	95.8	108.7	109.5
87.5°	50.5	50.5	52.2	59.9	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)