

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: P293392

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293392  
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-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6006.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 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

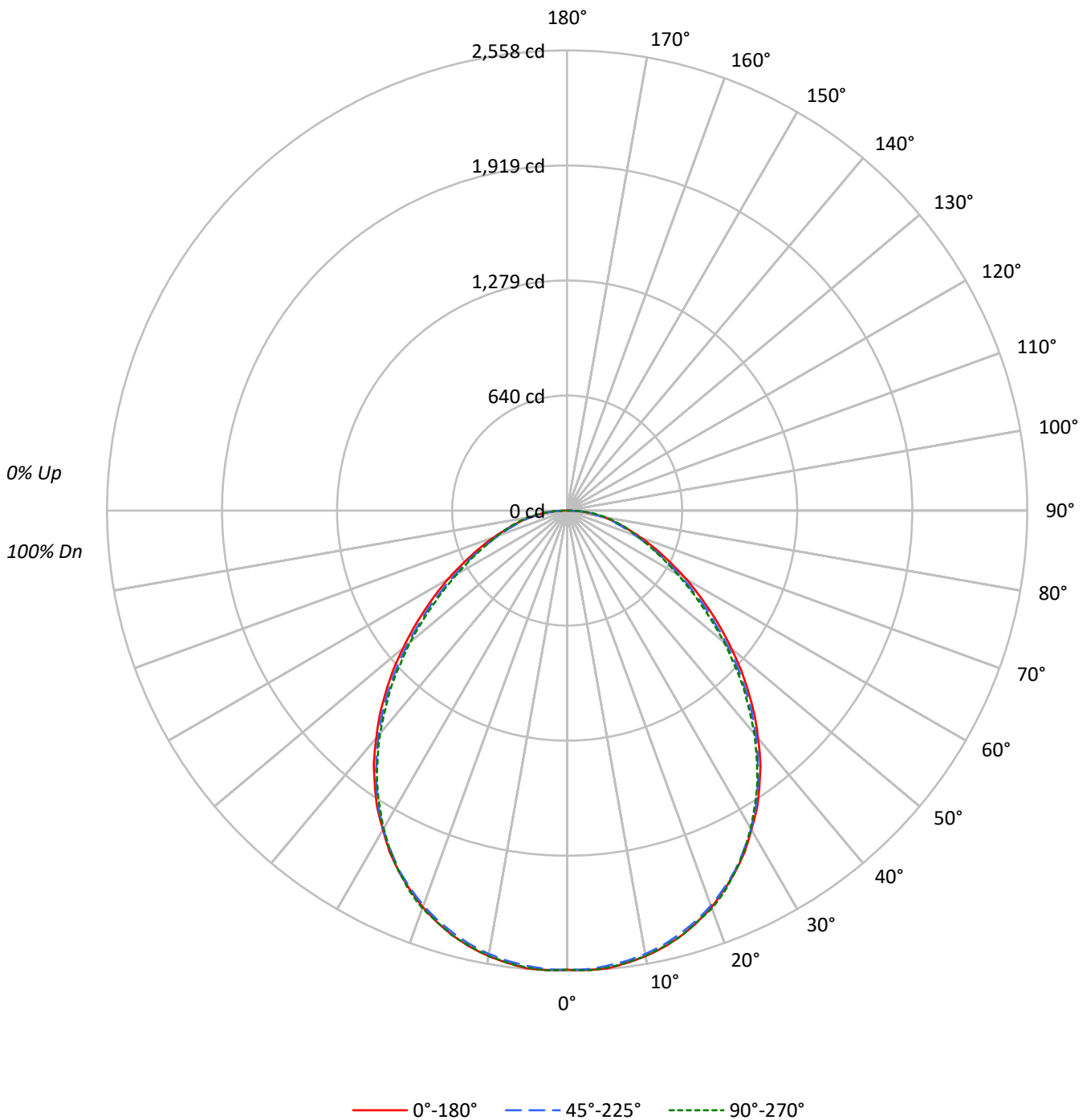
Input Watts (W): 47.244  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3434	3434	3434
5°	3450	3431	3445
10°	3436	3419	3435
15°	3409	3391	3412
20°	3359	3346	3370
25°	3286	3278	3285
30°	3182	3177	3169
35°	3062	3039	3027
40°	2899	2866	2843
45°	2712	2662	2629
50°	2492	2425	2384
55°	2273	2189	2125
60°	2064	1953	1902
65°	1859	1755	1725
70°	1703	1592	1636
75°	1591	1518	1630
80°	1578	1550	1702
85°	1609	1623	1856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.6	4.0
10°-20°	686.8	11.4
20°-30°	1014.6	16.9
30°-40°	1153.5	19.2
40°-50°	1077.2	17.9
50°-60°	837.7	13.9
60°-70°	555.9	9.3
70°-80°	321.7	5.4
80°-90°	117.0	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°	1943.0	32.4
0°-40°	3096.5	51.6
0°-60°	5011.5	83.4
0°-90°	6006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6006.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2552	2552	2552	2552	2552	
5°	2554	2541	2540	2545	2551	242
15°	2447	2435	2434	2433	2449	690
25°	2214	2204	2208	2203	2213	1018
35°	1864	1855	1850	1837	1843	1164
45°	1425	1414	1399	1381	1382	1098
55°	969	955	933	909	906	869
65°	584	566	551	541	542	584
75°	306	298	292	305	314	327
85°	104	102	105	119	120	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2552.5	2552.5	2552.5	2552.5	2552.5
2.5°	2556.3	2548.8	2552.5	2549.7	2558.2
5°	2554.4	2541.3	2540.3	2545.0	2550.7
7.5°	2536.6	2522.5	2525.3	2525.3	2534.7
10°	2515.0	2500.9	2502.8	2503.7	2514.1
12.5°	2485.9	2471.8	2472.8	2471.8	2482.1
15°	2447.4	2435.2	2434.3	2433.3	2449.3
17.5°	2400.5	2383.6	2389.2	2390.1	2398.6
20°	2346.0	2332.9	2336.6	2335.7	2353.5
22.5°	2281.2	2271.9	2274.7	2272.8	2289.7
25°	2213.6	2204.3	2208.0	2203.3	2212.7
27.5°	2137.6	2131.0	2127.3	2124.5	2131.0
30°	2048.4	2044.7	2044.7	2032.5	2040.0
32.5°	1963.9	1951.7	1951.7	1947.0	1942.3
35°	1864.4	1855.0	1850.3	1837.2	1842.8
37.5°	1764.9	1743.3	1741.4	1731.1	1731.1
40°	1650.4	1638.2	1631.6	1620.3	1618.5
42.5°	1541.5	1529.3	1518.0	1499.2	1495.5
45°	1425.1	1413.8	1398.8	1380.9	1381.9
47.5°	1309.6	1293.6	1279.6	1258.0	1255.2
50°	1190.4	1179.1	1158.5	1139.7	1138.7
52.5°	1078.7	1060.8	1042.0	1019.5	1019.5
55°	968.8	954.7	933.1	908.7	905.9
57.5°	863.7	850.5	826.1	808.3	803.6
60°	767.0	748.2	725.7	710.7	706.9
62.5°	670.3	653.4	636.5	621.5	620.5
65°	583.9	566.1	551.1	540.7	541.7
67.5°	506.0	491.0	474.1	471.3	472.2
70°	432.8	416.8	404.6	411.2	415.9
72.5°	363.3	354.9	346.4	355.8	362.4
75°	306.0	298.5	292.0	305.1	313.6
77.5°	253.5	247.8	246.9	258.2	265.7
80°	203.7	197.1	200.0	213.1	219.7
82.5°	154.9	150.2	151.1	167.1	171.8
85°	104.2	102.3	105.1	119.2	120.2
87.5°	55.4	55.4	57.3	65.7	62.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)