

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: P293394

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293394
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6073.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

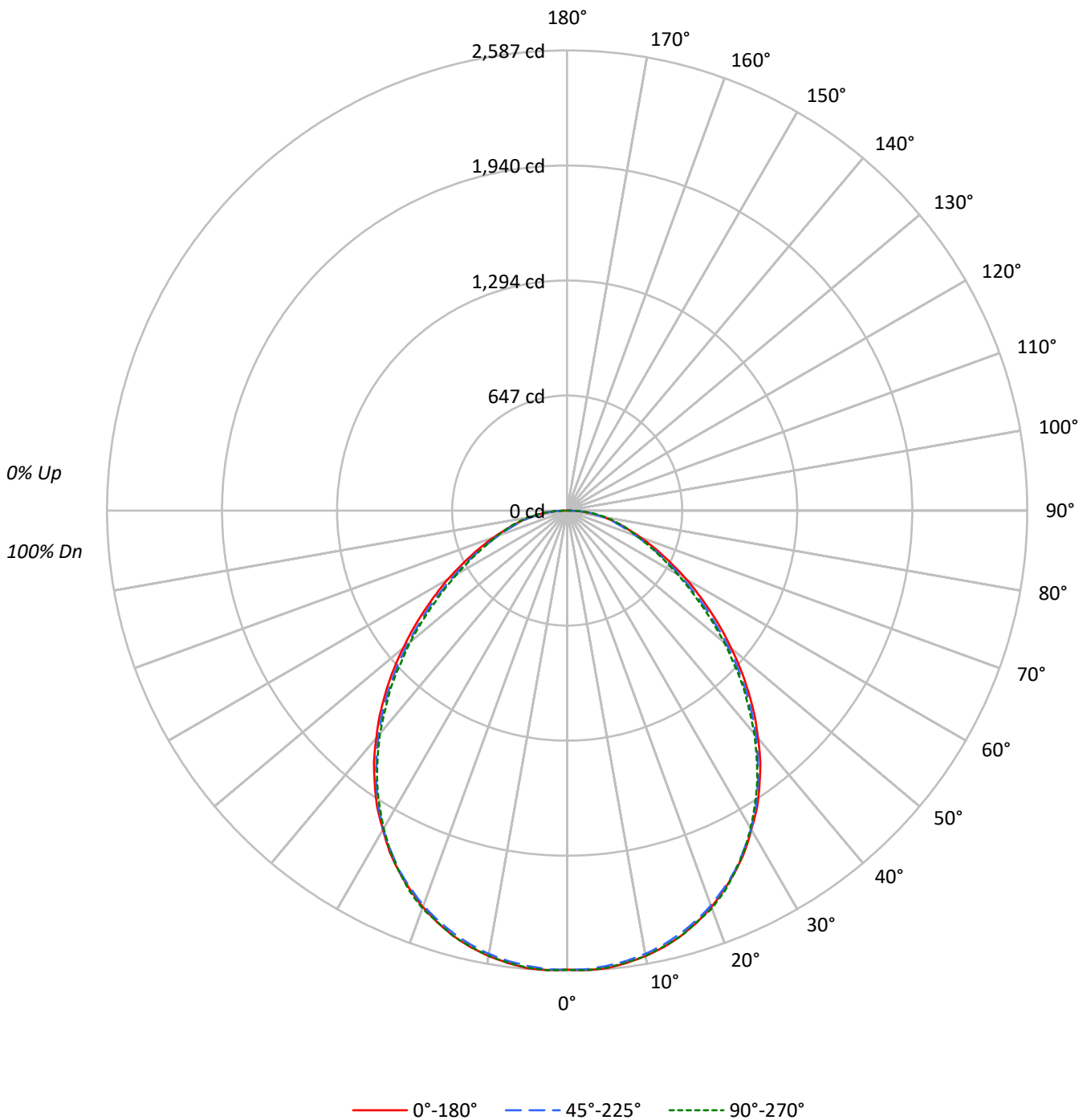
Input Watts (W): 48.081
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3473	3473	3473
5°	3489	3469	3483
10°	3474	3458	3473
15°	3447	3429	3450
20°	3397	3383	3407
25°	3323	3314	3322
30°	3218	3212	3205
35°	3097	3073	3061
40°	2931	2898	2874
45°	2742	2691	2659
50°	2520	2452	2410
55°	2298	2213	2149
60°	2087	1975	1924
65°	1880	1774	1744
70°	1721	1609	1654
75°	1609	1535	1648
80°	1596	1567	1721
85°	1627	1641	1876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	4.0
10°-20°	694.5	11.4
20°-30°	1025.9	16.9
30°-40°	1166.4	19.2
40°-50°	1089.3	17.9
50°-60°	847.1	13.9
60°-70°	562.1	9.3
70°-80°	325.3	5.4
80°-90°	118.3	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°	1964.7	32.4
0°-40°	3131.1	51.6
0°-60°	5067.4	83.4
0°-90°	6073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2581	2581	2581	2581	2581	
5°	2583	2570	2569	2573	2579	245
15°	2475	2462	2461	2460	2477	697
25°	2238	2229	2233	2228	2237	1029
35°	1885	1876	1871	1858	1863	1177
45°	1441	1430	1414	1396	1397	1110
55°	980	965	944	919	916	878
65°	590	572	557	547	548	590
75°	310	302	295	308	317	331
85°	105	104	106	121	122	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2581.0	2581.0	2581.0	2581.0	2581.0
2.5°	2584.8	2577.2	2581.0	2578.2	2586.7
5°	2582.9	2569.6	2568.7	2573.4	2579.1
7.5°	2564.9	2550.6	2553.5	2553.5	2563.0
10°	2543.1	2528.8	2530.7	2531.7	2542.1
12.5°	2513.6	2499.4	2500.3	2499.4	2509.8
15°	2474.7	2462.4	2461.4	2460.5	2476.6
17.5°	2427.2	2410.2	2415.9	2416.8	2425.3
20°	2372.2	2358.9	2362.7	2361.7	2379.8
22.5°	2306.7	2297.2	2300.0	2298.1	2315.2
25°	2238.3	2228.9	2232.6	2227.9	2237.4
27.5°	2161.5	2154.8	2151.0	2148.2	2154.8
30°	2071.3	2067.5	2067.5	2055.1	2062.7
32.5°	1985.8	1973.5	1973.5	1968.8	1964.0
35°	1885.2	1875.7	1871.0	1857.7	1863.4
37.5°	1784.6	1762.8	1760.9	1750.4	1750.4
40°	1668.8	1656.4	1649.8	1638.4	1636.5
42.5°	1558.7	1546.3	1534.9	1516.0	1512.2
45°	1441.0	1429.6	1414.4	1396.4	1397.3
47.5°	1324.2	1308.1	1293.8	1272.0	1269.2
50°	1203.7	1192.3	1171.4	1152.4	1151.4
52.5°	1090.7	1072.7	1053.7	1030.9	1030.9
55°	979.6	965.4	943.6	918.9	916.0
57.5°	873.3	860.0	835.3	817.3	812.6
60°	775.5	756.6	733.8	718.6	714.8
62.5°	677.8	660.7	643.6	628.4	627.5
65°	590.4	572.4	557.2	546.8	547.7
67.5°	511.6	496.5	479.4	476.5	477.5
70°	437.6	421.5	409.1	415.8	420.5
72.5°	367.4	358.8	350.3	359.8	366.4
75°	309.5	301.9	295.2	308.5	317.1
77.5°	256.3	250.6	249.7	261.0	268.6
80°	206.0	199.3	202.2	215.5	222.1
82.5°	156.6	151.9	152.8	169.0	173.7
85°	105.4	103.5	106.3	120.6	121.5
87.5°	56.0	56.0	57.9	66.4	63.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)