

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: P293266

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293266
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-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: 6654.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

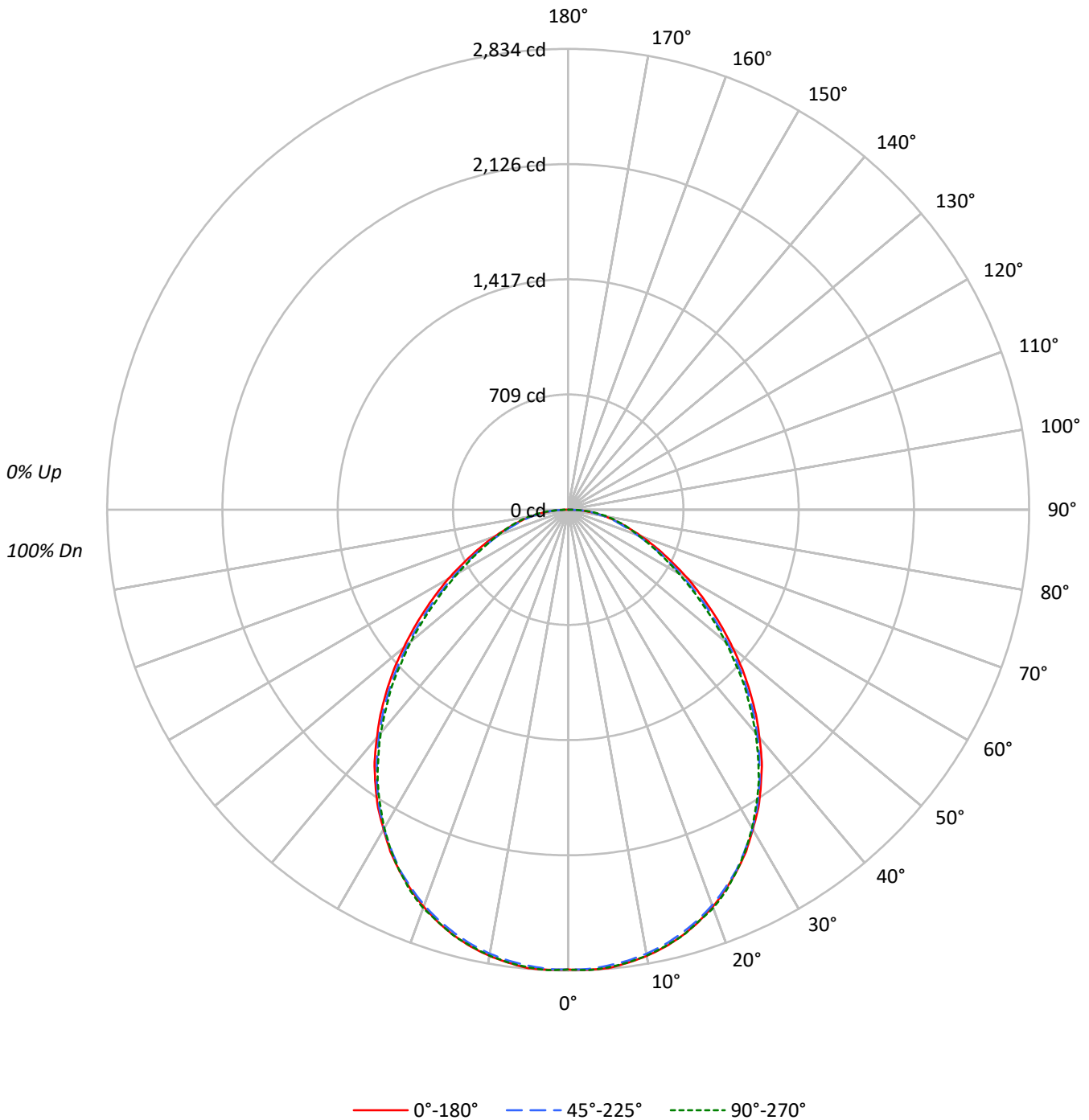
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3805	3805	3805
5°	3822	3801	3817
10°	3807	3788	3805
15°	3777	3757	3780
20°	3721	3707	3734
25°	3641	3632	3639
30°	3526	3519	3511
35°	3393	3367	3354
40°	3211	3175	3149
45°	3004	2949	2913
50°	2761	2686	2641
55°	2518	2425	2354
60°	2287	2164	2108
65°	2060	1944	1911
70°	1886	1764	1813
75°	1763	1682	1806
80°	1749	1716	1886
85°	1782	1798	2055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	4.0
10°-20°	760.9	11.4
20°-30°	1124.1	16.9
30°-40°	1278.0	19.2
40°-50°	1193.5	17.9
50°-60°	928.1	13.9
60°-70°	615.8	9.3
70°-80°	356.4	5.4
80°-90°	129.6	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°	2152.6	32.4
0°-40°	3430.6	51.6
0°-60°	5552.2	83.4
0°-90°	6654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2830	2816	2814	2820	2826	269
15°	2712	2698	2697	2696	2714	764
25°	2452	2442	2446	2441	2451	1128
35°	2066	2055	2050	2035	2042	1290
45°	1579	1566	1550	1530	1531	1216
55°	1073	1058	1034	1007	1004	963
65°	647	627	610	599	600	647
75°	339	331	324	338	347	363
85°	115	113	116	132	133	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2827.9	2827.9	2827.9	2827.9	2827.9
2.5°	2832.1	2823.8	2827.9	2824.8	2834.2
5°	2830.0	2815.5	2814.4	2819.6	2825.9
7.5°	2810.3	2794.7	2797.8	2797.8	2808.2
10°	2786.3	2770.7	2772.8	2773.9	2785.3
12.5°	2754.1	2738.5	2739.5	2738.5	2749.9
15°	2711.5	2697.9	2696.9	2695.9	2713.5
17.5°	2659.5	2640.7	2647.0	2648.0	2657.4
20°	2599.1	2584.6	2588.7	2587.7	2607.5
22.5°	2527.4	2517.0	2520.1	2518.0	2536.7
25°	2452.5	2442.1	2446.2	2441.0	2451.4
27.5°	2368.2	2361.0	2356.8	2353.7	2361.0
30°	2269.4	2265.3	2265.3	2251.8	2260.1
32.5°	2175.8	2162.3	2162.3	2157.1	2151.9
35°	2065.6	2055.2	2050.0	2035.4	2041.7
37.5°	1955.3	1931.4	1929.3	1917.9	1917.9
40°	1828.4	1814.9	1807.6	1795.2	1793.1
42.5°	1707.8	1694.3	1681.8	1661.0	1656.8
45°	1578.8	1566.3	1549.7	1529.9	1531.0
47.5°	1450.9	1433.2	1417.6	1393.7	1390.6
50°	1318.8	1306.3	1283.4	1262.6	1261.6
52.5°	1195.0	1175.3	1154.5	1129.5	1129.5
55°	1073.4	1057.8	1033.8	1006.8	1003.7
57.5°	956.9	942.3	915.3	895.5	890.3
60°	849.7	828.9	804.0	787.3	783.2
62.5°	742.6	723.9	705.2	688.5	687.5
65°	646.9	627.2	610.5	599.1	600.1
67.5°	560.6	544.0	525.2	522.1	523.2
70°	479.5	461.8	448.3	455.6	460.8
72.5°	402.5	393.1	383.8	394.2	401.5
75°	339.1	330.7	323.5	338.0	347.4
77.5°	280.8	274.6	273.5	286.0	294.3
80°	225.7	218.4	221.5	236.1	243.4
82.5°	171.6	166.4	167.5	185.1	190.3
85°	115.4	113.4	116.5	132.1	133.1
87.5°	61.4	61.4	63.4	72.8	69.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)