

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: P293898

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6085.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

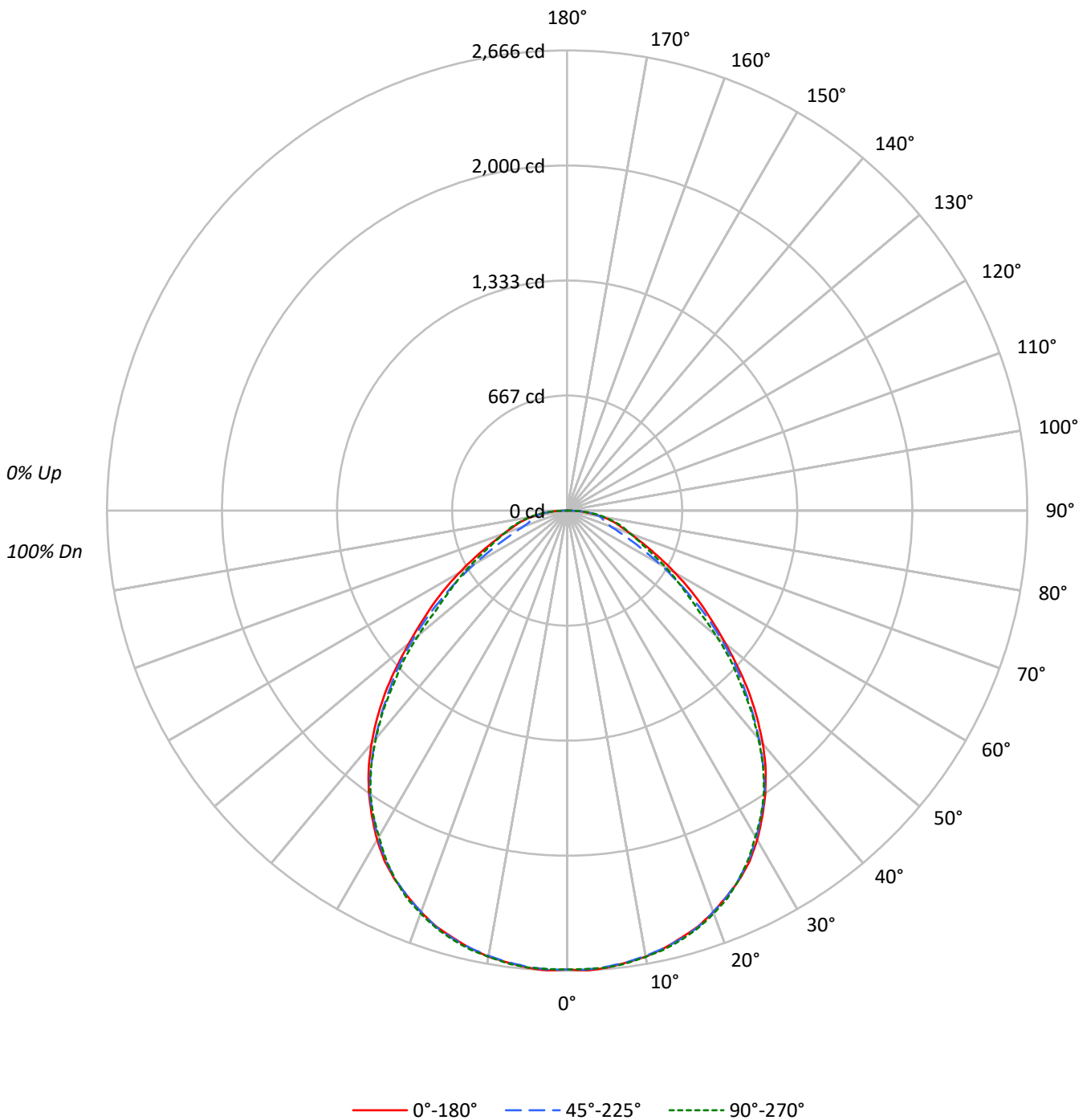
Input Watts (W): 48.081
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3578	3578	3578
5°	3590	3582	3589
10°	3585	3580	3586
15°	3568	3574	3583
20°	3544	3544	3557
25°	3503	3496	3499
30°	3422	3404	3388
35°	3287	3278	3265
40°	3096	3039	3026
45°	2832	2755	2704
50°	2504	2454	2359
55°	2227	2075	1995
60°	1939	1660	1780
65°	1674	1287	1575
70°	1528	1053	1524
75°	1540	1135	1619
80°	1603	1478	1706
85°	1670	1758	1891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	4.1
10°-20°	723.4	11.9
20°-30°	1082.8	17.8
30°-40°	1237.3	20.3
40°-50°	1118.6	18.4
50°-60°	804.8	13.2
60°-70°	466.6	7.7
70°-80°	276.8	4.5
80°-90°	122.6	2.0
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°	2058.4	33.8
0°-40°	3295.7	54.2
0°-60°	5219.1	85.8
0°-90°	6085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2659	2659	2659	2659	2659	
5°	2658	2654	2652	2648	2657	253
15°	2561	2566	2566	2563	2572	723
25°	2360	2357	2355	2350	2357	1085
35°	2001	1992	1995	1971	1988	1248
45°	1488	1463	1448	1434	1421	1144
55°	949	931	885	862	851	849
65°	526	467	404	452	495	531
75°	296	248	218	270	311	313
85°	108	117	114	131	122	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2658.9	2658.9	2658.9	2658.9	2658.9
2.5°	2666.5	2657.0	2661.8	2658.9	2658.0
5°	2658.0	2654.2	2652.3	2648.5	2657.0
7.5°	2640.9	2638.0	2639.0	2639.9	2645.6
10°	2623.8	2619.1	2620.0	2621.9	2624.8
12.5°	2597.2	2594.4	2595.3	2597.2	2603.9
15°	2561.2	2565.9	2565.9	2563.1	2572.5
17.5°	2525.1	2524.1	2528.9	2520.3	2533.6
20°	2474.8	2475.7	2474.8	2475.7	2484.3
22.5°	2417.8	2422.6	2419.7	2419.7	2429.2
25°	2359.9	2357.1	2355.2	2350.4	2357.1
27.5°	2290.6	2284.9	2280.2	2270.7	2275.4
30°	2202.3	2203.3	2190.9	2182.4	2180.5
32.5°	2103.6	2103.6	2092.2	2085.6	2091.3
35°	2001.1	1991.6	1995.4	1970.7	1987.8
37.5°	1890.0	1874.8	1866.3	1857.7	1863.4
40°	1762.8	1742.9	1730.5	1713.5	1722.9
42.5°	1629.0	1604.3	1589.1	1576.8	1580.6
45°	1488.5	1462.8	1447.7	1434.4	1421.1
47.5°	1340.4	1324.2	1316.7	1299.6	1284.4
50°	1196.1	1190.4	1172.4	1158.1	1126.8
52.5°	1064.1	1059.4	1030.9	1007.2	967.3
55°	949.3	931.2	884.7	861.9	850.6
57.5°	832.5	803.1	747.1	744.2	751.8
60°	720.5	684.4	617.0	632.2	661.6
62.5°	618.9	564.8	500.3	536.3	571.5
65°	525.9	467.0	404.4	451.9	494.6
67.5°	449.0	390.2	325.6	389.2	438.6
70°	388.3	328.5	267.7	340.8	387.3
72.5°	337.9	283.8	233.5	302.8	351.2
75°	296.2	247.8	218.3	269.6	311.4
77.5°	254.4	215.5	208.8	240.2	265.8
80°	206.9	188.9	190.8	210.7	220.2
82.5°	154.7	155.7	160.4	176.6	172.8
85°	108.2	116.8	113.9	131.0	122.5
87.5°	59.8	65.5	61.7	75.0	67.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)