

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: P293912

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293912
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-LD5-85-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

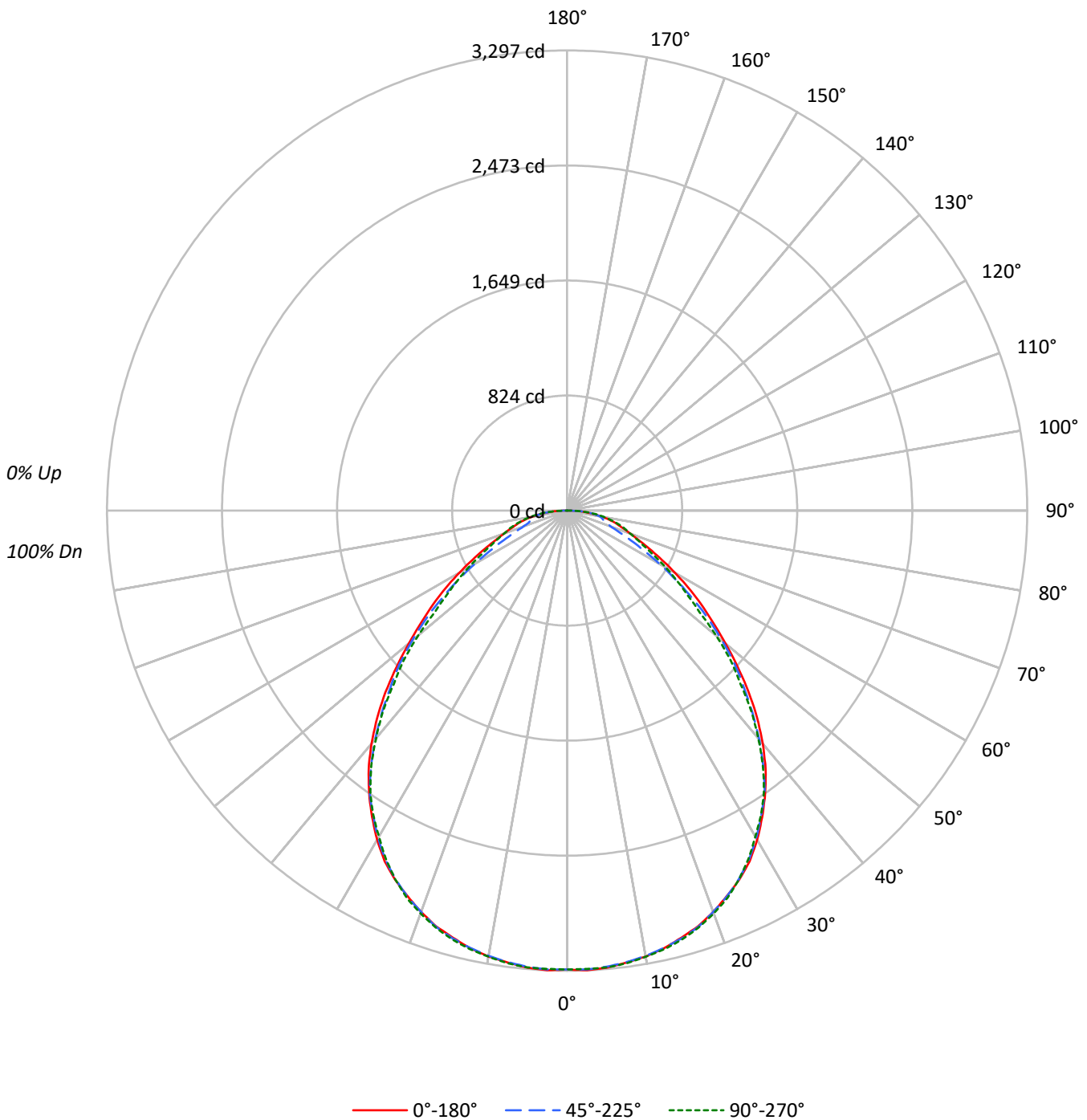
Input Watts (W): 63.612
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4424	4424	4424
5°	4439	4429	4437
10°	4433	4426	4434
15°	4411	4419	4431
20°	4381	4381	4398
25°	4332	4323	4327
30°	4231	4209	4189
35°	4064	4053	4037
40°	3828	3758	3742
45°	3502	3406	3343
50°	3096	3034	2916
55°	2753	2566	2467
60°	2397	2053	2201
65°	2070	1592	1947
70°	1889	1302	1884
75°	1904	1404	2001
80°	1983	1828	2110
85°	2066	2175	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	4.1
10°-20°	894.4	11.9
20°-30°	1338.9	17.8
30°-40°	1529.9	20.3
40°-50°	1383.2	18.4
50°-60°	995.1	13.2
60°-70°	576.9	7.7
70°-80°	342.2	4.5
80°-90°	151.6	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°	2545.2	33.8
0°-40°	4075.1	54.2
0°-60°	6453.3	85.8
0°-90°	7524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3288	3288	3288	3288	3288	
5°	3287	3282	3280	3275	3285	312
15°	3167	3173	3173	3169	3181	894
25°	2918	2914	2912	2906	2914	1342
35°	2474	2463	2467	2437	2458	1543
45°	1840	1809	1790	1774	1757	1414
55°	1174	1152	1094	1066	1052	1050
65°	650	578	500	559	612	657
75°	366	306	270	333	385	387
85°	134	144	141	162	151	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3287.7	3287.7	3287.7	3287.7	3287.7
2.5°	3297.1	3285.4	3291.2	3287.7	3286.6
5°	3286.6	3281.9	3279.5	3274.8	3285.4
7.5°	3265.4	3261.9	3263.1	3264.3	3271.3
10°	3244.3	3238.4	3239.6	3241.9	3245.5
12.5°	3211.4	3207.9	3209.1	3211.4	3219.6
15°	3166.8	3172.7	3172.7	3169.2	3180.9
17.5°	3122.2	3121.1	3126.9	3116.4	3132.8
20°	3060.0	3061.2	3060.0	3061.2	3071.8
22.5°	2989.6	2995.5	2991.9	2991.9	3003.7
25°	2918.0	2914.5	2912.1	2906.3	2914.5
27.5°	2832.3	2825.3	2819.4	2807.7	2813.5
30°	2723.1	2724.3	2709.1	2698.5	2696.1
32.5°	2601.1	2601.1	2587.0	2578.8	2585.8
35°	2474.3	2462.6	2467.3	2436.7	2457.9
37.5°	2337.0	2318.2	2307.6	2297.1	2304.1
40°	2179.7	2155.0	2139.8	2118.7	2130.4
42.5°	2014.2	1983.7	1964.9	1949.6	1954.3
45°	1840.5	1808.8	1790.0	1773.6	1757.1
47.5°	1657.4	1637.4	1628.0	1606.9	1588.1
50°	1478.9	1471.9	1449.6	1432.0	1393.3
52.5°	1315.8	1309.9	1274.7	1245.4	1196.1
55°	1173.8	1151.5	1094.0	1065.8	1051.7
57.5°	1029.4	993.0	923.8	920.2	929.6
60°	890.9	846.3	762.9	781.7	818.1
62.5°	765.3	698.4	618.6	663.2	706.6
65°	650.3	577.5	500.0	558.7	611.5
67.5°	555.2	482.4	402.6	481.2	542.3
70°	480.1	406.1	331.0	421.4	478.9
72.5°	417.9	351.0	288.7	374.4	434.3
75°	366.2	306.4	270.0	333.4	385.0
77.5°	314.6	266.4	258.2	297.0	328.7
80°	255.9	233.6	235.9	260.6	272.3
82.5°	191.3	192.5	198.4	218.3	213.6
85°	133.8	144.4	140.9	162.0	151.4
87.5°	73.9	81.0	76.3	92.7	83.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)