

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: P293779

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293779
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-LD5-72-A125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7532.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

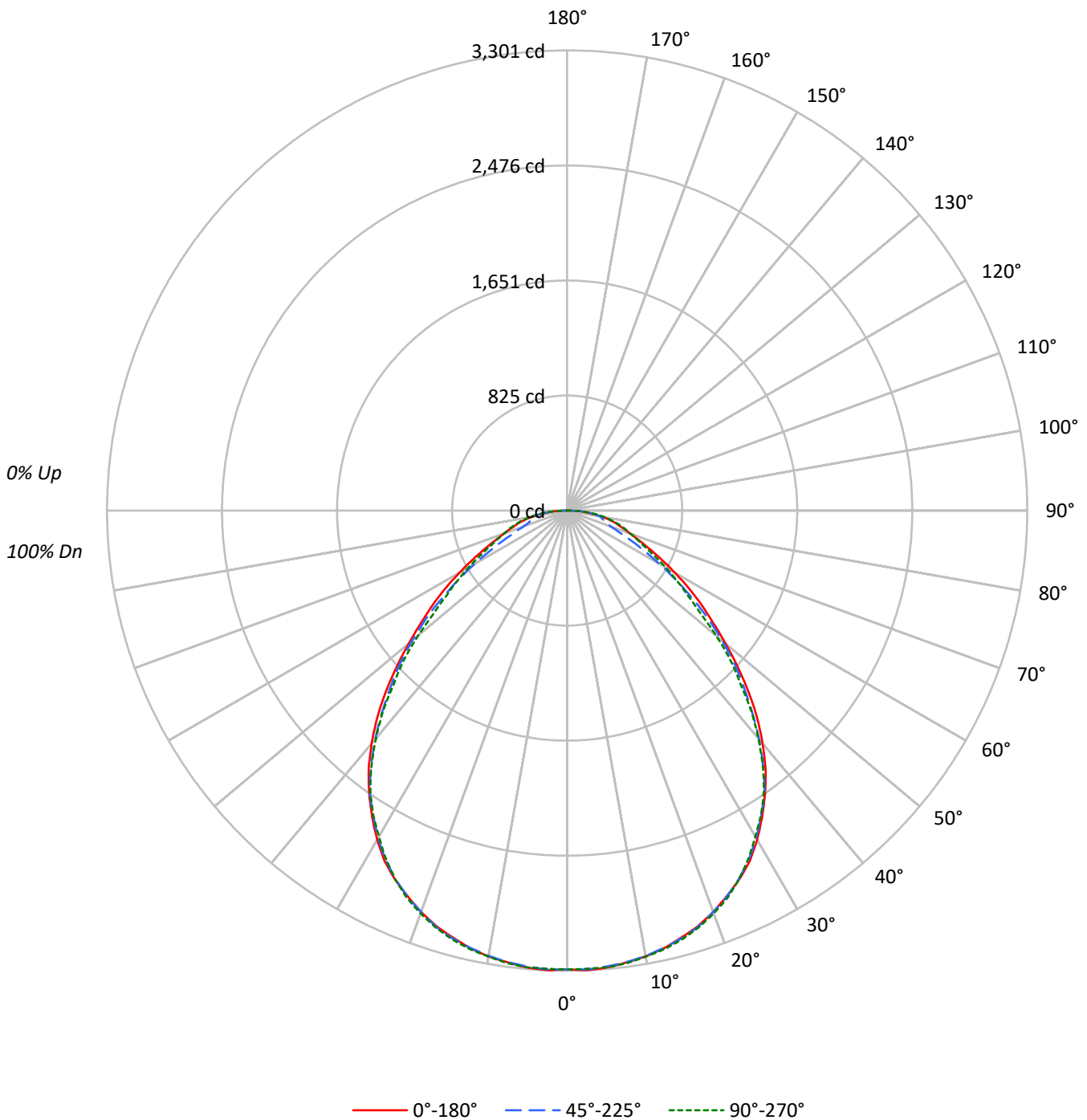
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4428	4428	4428
5°	4444	4434	4442
10°	4437	4431	4439
15°	4416	4424	4436
20°	4386	4386	4403
25°	4337	4328	4331
30°	4235	4213	4193
35°	4068	4057	4041
40°	3832	3762	3746
45°	3506	3410	3347
50°	3099	3037	2919
55°	2756	2569	2470
60°	2400	2055	2204
65°	2073	1594	1949
70°	1891	1304	1886
75°	1906	1405	2004
80°	1985	1830	2112
85°	2069	2177	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	4.1
10°-20°	895.4	11.9
20°-30°	1340.3	17.8
30°-40°	1531.5	20.3
40°-50°	1384.6	18.4
50°-60°	996.2	13.2
60°-70°	577.5	7.7
70°-80°	342.6	4.5
80°-90°	151.7	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°	2547.9	33.8
0°-40°	4079.4	54.2
0°-60°	6460.2	85.8
0°-90°	7532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3290	3285	3283	3278	3289	313
15°	3170	3176	3176	3172	3184	895
25°	2921	2918	2915	2909	2918	1343
35°	2477	2465	2470	2439	2460	1544
45°	1842	1811	1792	1776	1759	1415
55°	1175	1153	1095	1067	1053	1051
65°	651	578	501	559	612	657
75°	367	307	270	334	385	387
85°	134	144	141	162	152	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3291.2	3291.2	3291.2	3291.2	3291.2
2.5°	3300.6	3288.9	3294.7	3291.2	3290.0
5°	3290.0	3285.3	3283.0	3278.3	3288.9
7.5°	3268.9	3265.4	3266.5	3267.7	3274.8
10°	3247.7	3241.9	3243.0	3245.4	3248.9
12.5°	3214.8	3211.3	3212.5	3214.8	3223.1
15°	3170.2	3176.1	3176.1	3172.5	3184.3
17.5°	3125.5	3124.4	3130.2	3119.7	3136.1
20°	3063.3	3064.4	3063.3	3064.4	3075.0
22.5°	2992.8	2998.6	2995.1	2995.1	3006.9
25°	2921.1	2917.6	2915.2	2909.3	2917.6
27.5°	2835.3	2828.3	2822.4	2810.6	2816.5
30°	2726.0	2727.2	2711.9	2701.4	2699.0
32.5°	2603.8	2603.8	2589.7	2581.5	2588.6
35°	2476.9	2465.2	2469.9	2439.3	2460.5
37.5°	2339.5	2320.7	2310.1	2299.5	2306.6
40°	2182.0	2157.3	2142.1	2120.9	2132.7
42.5°	2016.3	1985.8	1967.0	1951.7	1956.4
45°	1842.4	1810.7	1791.9	1775.5	1759.0
47.5°	1659.1	1639.1	1629.7	1608.6	1589.8
50°	1480.5	1473.5	1451.1	1433.5	1394.7
52.5°	1317.2	1311.3	1276.1	1246.7	1197.3
55°	1175.0	1152.7	1095.1	1066.9	1052.8
57.5°	1030.5	994.1	924.7	921.2	930.6
60°	891.8	847.2	763.8	782.6	819.0
62.5°	766.1	699.1	619.2	663.9	707.4
65°	651.0	578.1	500.6	559.3	612.2
67.5°	555.8	482.9	403.0	481.8	542.9
70°	480.6	406.6	331.4	421.8	479.4
72.5°	418.3	351.3	289.1	374.8	434.8
75°	366.6	306.7	270.3	333.7	385.4
77.5°	314.9	266.7	258.5	297.3	329.0
80°	256.2	233.8	236.2	260.9	272.6
82.5°	191.5	192.7	198.6	218.6	213.9
85°	134.0	144.5	141.0	162.2	151.6
87.5°	74.0	81.1	76.4	92.8	83.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)