

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: P293901

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293901
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-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6198.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

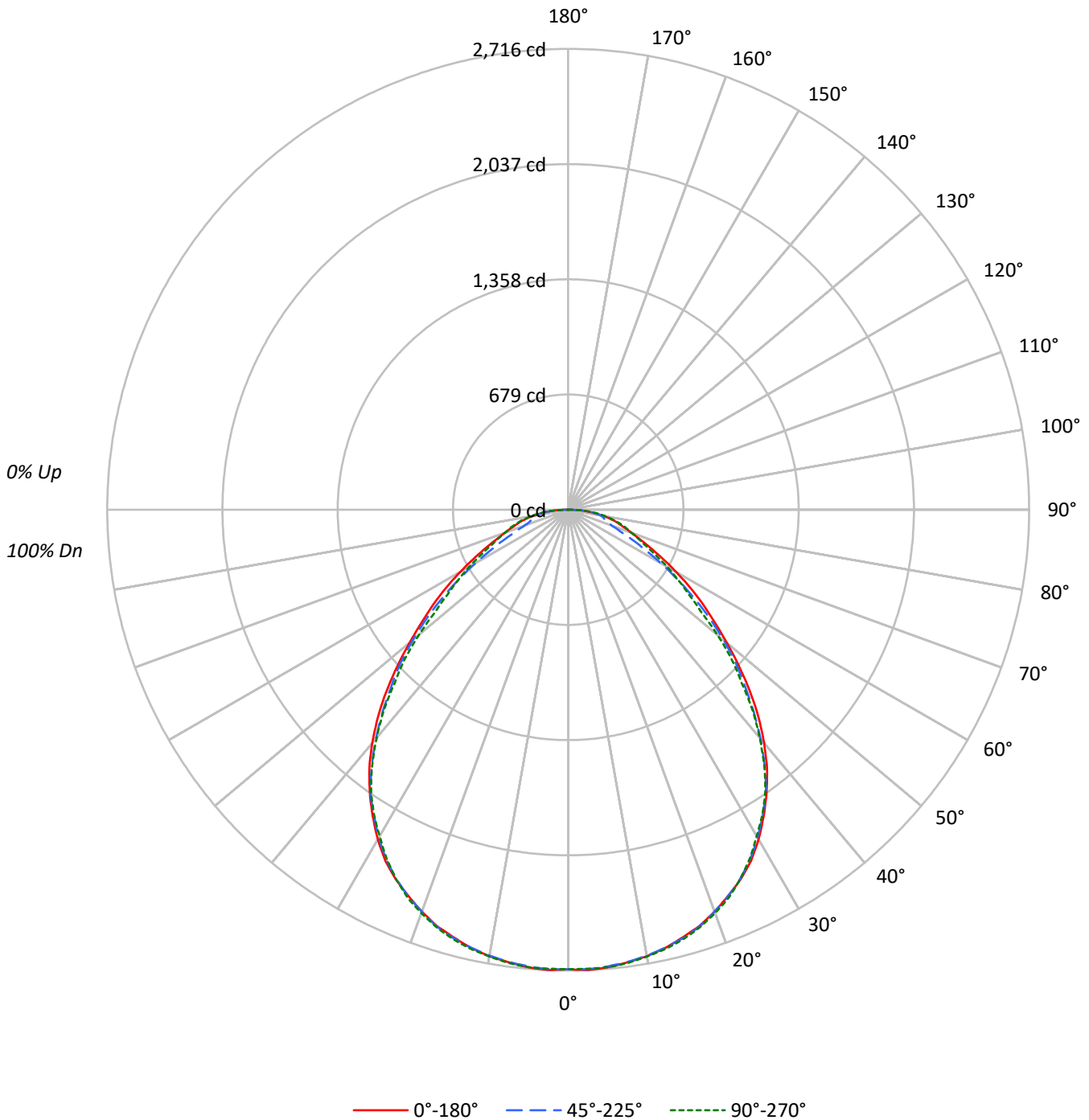
Input Watts (W): 52.638
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3644	3644	3644
5°	3657	3649	3655
10°	3651	3646	3653
15°	3634	3641	3650
20°	3609	3609	3623
25°	3568	3561	3564
30°	3485	3467	3451
35°	3348	3338	3326
40°	3154	3096	3082
45°	2885	2806	2754
50°	2550	2500	2402
55°	2268	2114	2032
60°	1975	1691	1813
65°	1706	1311	1604
70°	1556	1073	1552
75°	1568	1156	1648
80°	1633	1506	1738
85°	1701	1791	1925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	4.1
10°-20°	736.8	11.9
20°-30°	1102.9	17.8
30°-40°	1260.3	20.3
40°-50°	1139.4	18.4
50°-60°	819.7	13.2
60°-70°	475.2	7.7
70°-80°	281.9	4.5
80°-90°	124.8	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°	2096.6	33.8
0°-40°	3356.9	54.2
0°-60°	5316.0	85.8
0°-90°	6198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2708	2708	2708	2708	2708	
5°	2707	2704	2702	2698	2706	257
15°	2609	2614	2614	2611	2620	736
25°	2404	2401	2399	2394	2401	1105
35°	2038	2029	2032	2007	2025	1271
45°	1516	1490	1474	1461	1448	1165
55°	967	948	901	878	866	865
65°	536	476	412	460	504	541
75°	302	252	222	275	317	319
85°	110	119	116	133	125	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2708.3	2708.3	2708.3	2708.3	2708.3
2.5°	2716.0	2706.4	2711.2	2708.3	2707.3
5°	2707.3	2703.5	2701.5	2697.7	2706.4
7.5°	2689.9	2687.0	2688.0	2689.0	2694.8
10°	2672.5	2667.7	2668.7	2670.6	2673.5
12.5°	2645.5	2642.6	2643.5	2645.5	2652.2
15°	2608.7	2613.6	2613.6	2610.7	2620.3
17.5°	2572.0	2571.0	2575.8	2567.1	2580.7
20°	2520.7	2521.7	2520.7	2521.7	2530.4
22.5°	2462.7	2467.6	2464.6	2464.6	2474.3
25°	2403.7	2400.8	2398.9	2394.1	2400.8
27.5°	2333.2	2327.3	2322.5	2312.8	2317.7
30°	2243.2	2244.2	2231.6	2222.9	2221.0
32.5°	2142.7	2142.7	2131.1	2124.3	2130.1
35°	2038.2	2028.6	2032.4	2007.3	2024.7
37.5°	1925.1	1909.6	1900.9	1892.2	1898.0
40°	1795.5	1775.2	1762.7	1745.3	1754.9
42.5°	1659.2	1634.1	1618.6	1606.0	1609.9
45°	1516.1	1490.0	1474.5	1461.0	1447.5
47.5°	1365.3	1348.8	1341.1	1323.7	1308.2
50°	1218.3	1212.5	1194.1	1179.6	1147.7
52.5°	1083.9	1079.1	1050.1	1025.9	985.3
55°	966.9	948.5	901.2	878.0	866.3
57.5°	848.0	818.0	761.0	758.1	765.8
60°	733.9	697.1	628.5	644.0	673.9
62.5°	630.4	575.3	509.6	546.3	582.1
65°	535.7	475.7	411.9	460.2	503.8
67.5°	457.3	397.4	331.6	396.4	446.7
70°	395.5	334.6	272.7	347.1	394.5
72.5°	344.2	289.1	237.9	308.4	357.8
75°	301.7	252.4	222.4	274.6	317.1
77.5°	259.1	219.5	212.7	244.6	270.7
80°	210.8	192.4	194.3	214.7	224.3
82.5°	157.6	158.6	163.4	179.8	176.0
85°	110.2	118.9	116.0	133.4	124.7
87.5°	60.9	66.7	62.8	76.4	68.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)