

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: P293655

Luminaire Tested: **24GR-LD5-72-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6942.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

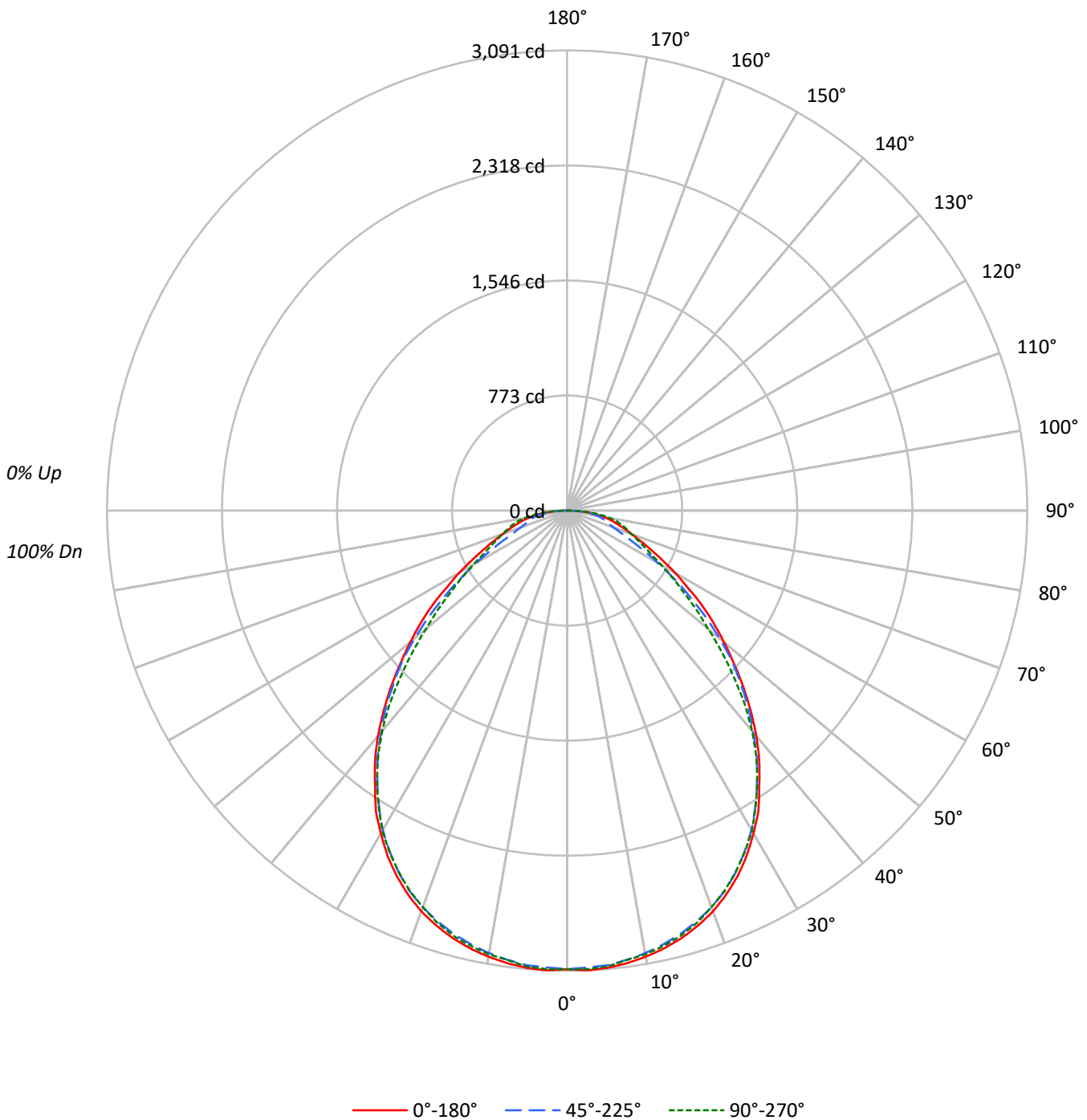
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	4144	4144	4144
5°	4164	4141	4151
10°	4157	4123	4135
15°	4141	4099	4117
20°	4102	4060	4059
25°	4022	3979	3976
30°	3889	3849	3857
35°	3694	3652	3657
40°	3473	3413	3393
45°	3183	3141	3016
50°	2878	2799	2588
55°	2584	2352	2232
60°	2263	1893	1963
65°	1974	1489	1806
70°	1806	1299	1806
75°	1807	1383	1991
80°	1961	1629	2269
85°	2152	1837	2435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	4.2
10°-20°	832.4	12.0
20°-30°	1234.3	17.8
30°-40°	1392.4	20.1
40°-50°	1261.1	18.2
50°-60°	909.8	13.1
60°-70°	543.2	7.8
70°-80°	335.7	4.8
80°-90°	141.4	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°	2358.3	34.0
0°-40°	3750.7	54.0
0°-60°	5921.6	85.3
0°-90°	6942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3080	3080	3080	3080	3080	
5°	3083	3079	3066	3063	3074	293
15°	2973	2955	2943	2944	2956	838
25°	2709	2694	2680	2670	2678	1245
35°	2249	2246	2223	2224	2226	1407
45°	1673	1662	1650	1610	1585	1289
55°	1101	1067	1003	953	951	983
65°	620	546	468	531	567	624
75°	348	301	266	331	383	371
85°	139	122	119	156	158	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3080.1	3080.1	3080.1	3080.1	3080.1
2.5°	3090.8	3082.2	3071.5	3077.9	3083.3
5°	3083.3	3079.0	3066.1	3062.9	3073.7
7.5°	3067.2	3056.5	3044.7	3050.1	3045.8
10°	3042.5	3032.9	3017.9	3019.0	3026.5
12.5°	3012.5	3000.7	2984.6	2988.9	2995.4
15°	2972.8	2954.6	2942.8	2943.9	2955.7
17.5°	2922.4	2908.5	2893.5	2896.7	2902.1
20°	2864.5	2857.0	2835.6	2829.1	2834.5
22.5°	2791.6	2777.7	2765.9	2762.6	2763.7
25°	2709.0	2694.0	2680.1	2670.4	2677.9
27.5°	2612.5	2599.6	2581.4	2578.2	2584.6
30°	2503.1	2493.5	2477.4	2473.1	2482.7
32.5°	2391.6	2375.5	2353.0	2353.0	2355.1
35°	2248.9	2245.7	2223.2	2224.3	2226.4
37.5°	2120.2	2105.2	2092.4	2079.5	2085.9
40°	1977.6	1960.4	1943.3	1934.7	1931.5
42.5°	1824.2	1811.4	1803.9	1772.8	1765.3
45°	1673.0	1662.3	1650.5	1609.8	1585.1
47.5°	1518.6	1516.4	1506.8	1434.9	1410.3
50°	1374.9	1371.7	1337.3	1261.2	1236.5
52.5°	1238.7	1217.2	1172.2	1097.1	1092.8
55°	1101.4	1067.1	1002.7	953.4	951.3
57.5°	956.6	915.9	850.5	823.6	837.6
60°	840.8	778.6	703.5	706.7	729.3
62.5°	720.7	651.0	577.0	609.2	636.0
65°	619.9	545.9	467.6	530.9	567.3
67.5°	531.9	463.3	388.2	473.0	508.3
70°	459.0	403.2	330.3	419.3	459.0
72.5°	401.1	349.6	292.8	376.4	422.5
75°	347.5	301.4	266.0	331.4	382.9
77.5°	301.4	256.3	240.2	292.8	343.2
80°	253.1	212.3	210.2	255.2	292.8
82.5°	197.3	169.4	169.4	213.4	235.9
85°	139.4	122.3	119.0	155.5	157.7
87.5°	71.9	68.6	62.2	81.5	81.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)