

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: P293654

Luminaire Tested: **24GR-LD5-72-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293654
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6896.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

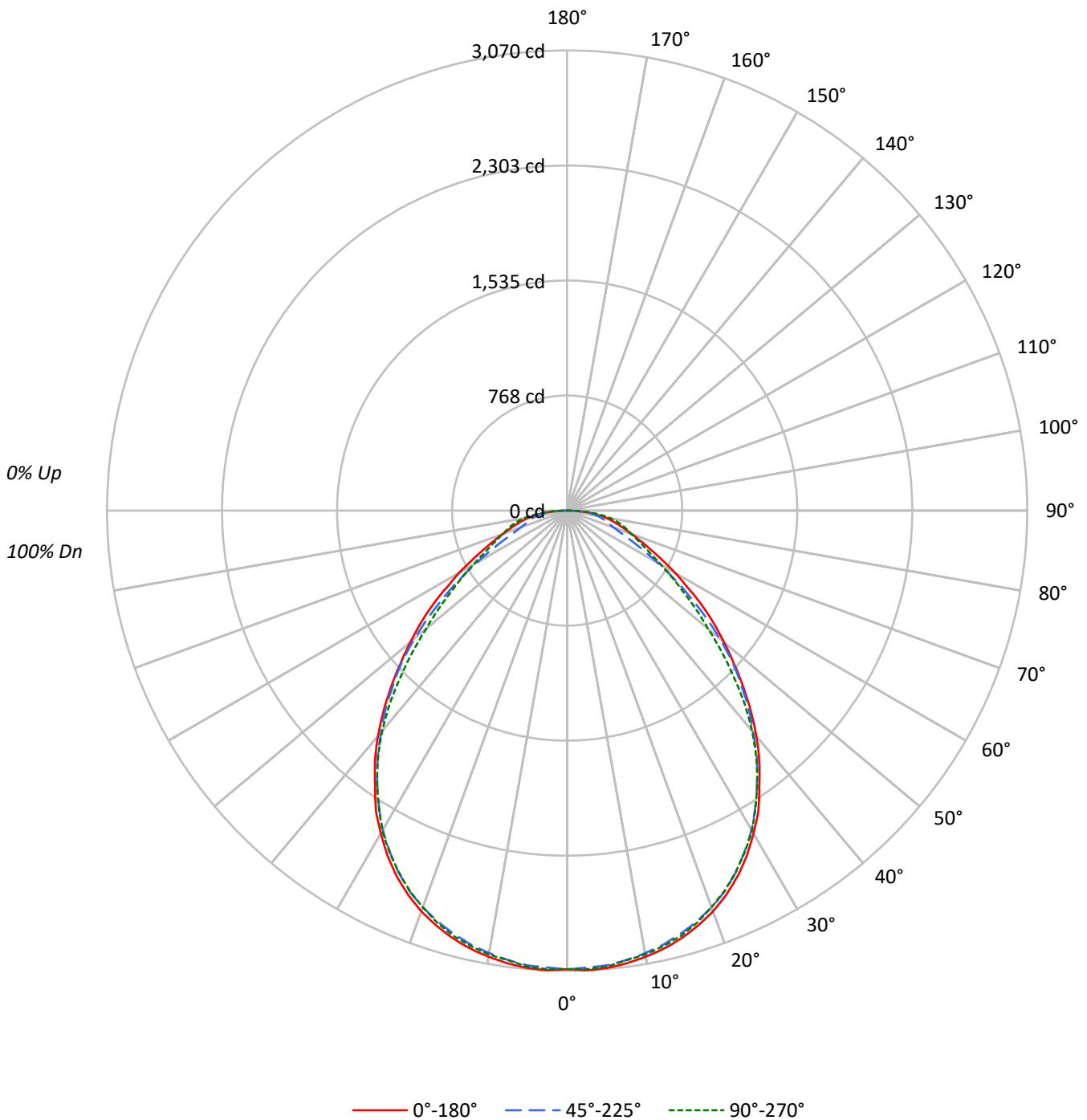
Input Watts (W): 54.126
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	4117	4117	4117
5°	4137	4114	4124
10°	4129	4096	4107
15°	4114	4072	4090
20°	4074	4033	4032
25°	3995	3952	3949
30°	3863	3824	3832
35°	3669	3628	3633
40°	3450	3391	3370
45°	3162	3120	2996
50°	2859	2781	2571
55°	2567	2337	2217
60°	2248	1881	1949
65°	1961	1479	1794
70°	1794	1291	1794
75°	1795	1373	1977
80°	1948	1618	2253
85°	2138	1826	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	4.2
10°-20°	826.9	12.0
20°-30°	1226.1	17.8
30°-40°	1383.2	20.1
40°-50°	1252.7	18.2
50°-60°	903.8	13.1
60°-70°	539.6	7.8
70°-80°	333.5	4.8
80°-90°	140.5	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
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0°-30°	2342.7	34.0
0°-40°	3725.8	54.0
0°-60°	5882.3	85.3
0°-90°	6896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3060	3060	3060	3060	3060	
5°	3063	3059	3046	3043	3053	291
15°	2953	2935	2923	2924	2936	832
25°	2691	2676	2662	2653	2660	1236
35°	2234	2231	2208	2210	2212	1398
45°	1662	1651	1640	1599	1575	1281
55°	1094	1060	996	947	945	977
65°	616	542	464	527	564	619
75°	345	299	264	329	380	369
85°	138	121	118	154	157	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	3070.3	3061.8	3051.2	3057.5	3062.9
5°	3062.9	3058.6	3045.8	3042.6	3053.3
7.5°	3046.9	3036.2	3024.5	3029.8	3025.6
10°	3022.4	3012.8	2997.9	2999.0	3006.4
12.5°	2992.6	2980.8	2964.9	2969.1	2975.5
15°	2953.1	2935.0	2923.3	2924.4	2936.1
17.5°	2903.1	2889.2	2874.3	2877.5	2882.8
20°	2845.5	2838.1	2816.8	2810.4	2815.7
22.5°	2773.1	2759.2	2747.5	2744.3	2745.4
25°	2691.1	2676.2	2662.3	2652.7	2660.2
27.5°	2595.2	2582.4	2564.3	2561.1	2567.5
30°	2486.5	2476.9	2461.0	2456.7	2466.3
32.5°	2375.7	2359.7	2337.4	2337.4	2339.5
35°	2234.0	2230.8	2208.5	2209.5	2211.7
37.5°	2106.2	2091.3	2078.5	2065.7	2072.1
40°	1964.5	1947.5	1930.4	1921.9	1918.7
42.5°	1812.2	1799.4	1791.9	1761.0	1753.6
45°	1661.9	1651.3	1639.6	1599.1	1574.6
47.5°	1508.5	1506.4	1496.8	1425.4	1400.9
50°	1365.8	1362.6	1328.5	1252.8	1228.3
52.5°	1230.5	1209.2	1164.4	1089.8	1085.6
55°	1094.1	1060.0	996.1	947.1	945.0
57.5°	950.3	909.8	844.8	818.2	832.0
60°	835.2	773.4	698.9	702.1	724.4
62.5°	715.9	646.7	573.2	605.1	631.8
65°	615.8	542.3	464.5	527.3	563.6
67.5°	528.4	460.2	385.7	469.8	505.0
70°	456.0	400.6	328.1	416.6	456.0
72.5°	398.4	347.3	290.8	373.9	419.7
75°	345.2	299.4	264.2	329.2	380.3
77.5°	299.4	254.6	238.6	290.8	340.9
80°	251.4	210.9	208.8	253.6	290.8
82.5°	196.0	168.3	168.3	212.0	234.4
85°	138.5	121.4	118.3	154.5	156.6
87.5°	71.4	68.2	61.8	81.0	81.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)