

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: P293653

Luminaire Tested: **24GR-LD5-72-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293653
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

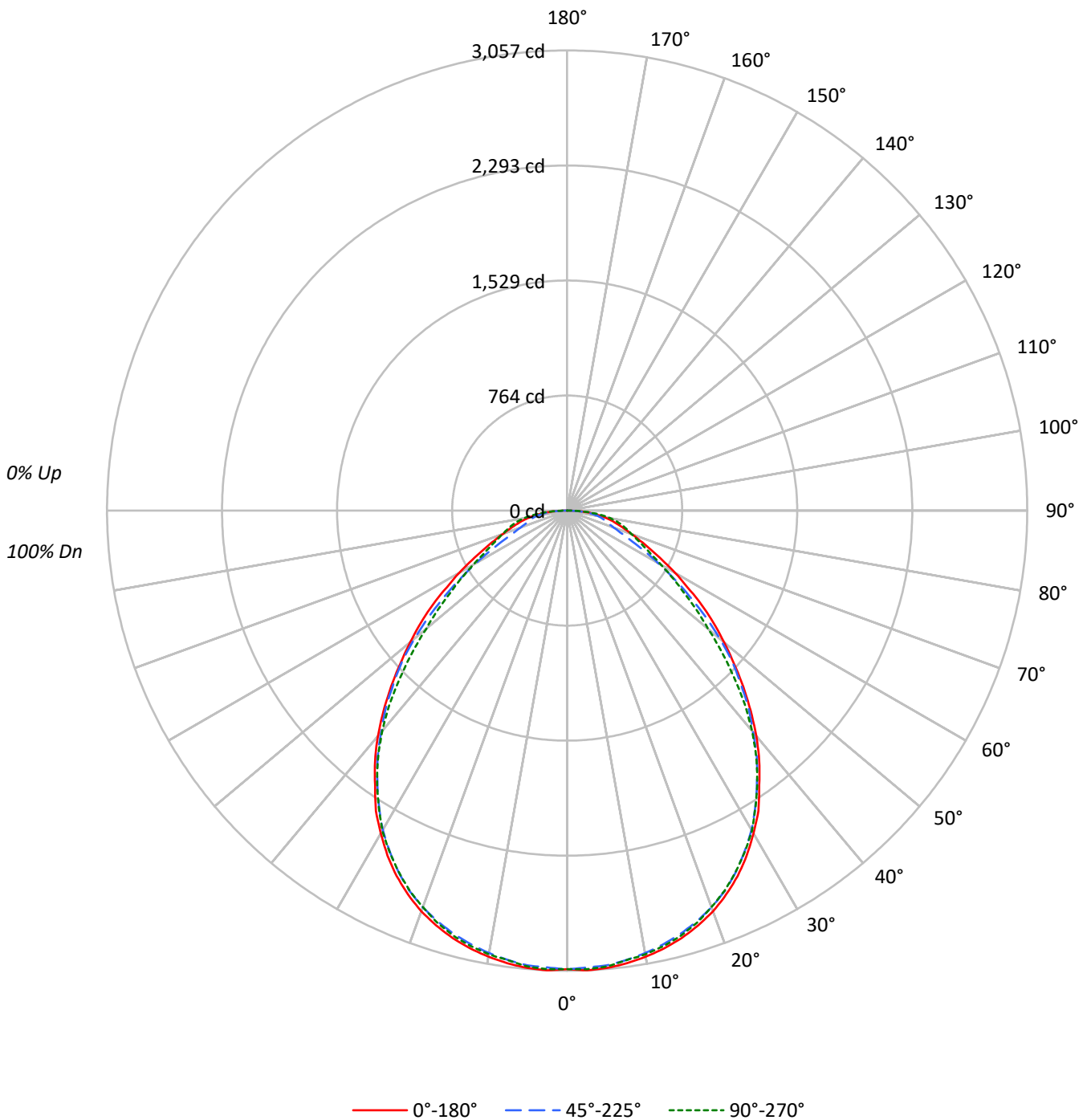
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4099	4099	4099
5°	4119	4096	4106
10°	4111	4078	4090
15°	4096	4054	4072
20°	4057	4016	4014
25°	3978	3935	3932
30°	3846	3807	3815
35°	3654	3612	3617
40°	3436	3376	3355
45°	3149	3106	2983
50°	2846	2769	2560
55°	2556	2327	2207
60°	2238	1872	1941
65°	1952	1472	1786
70°	1786	1285	1786
75°	1787	1368	1969
80°	1939	1611	2244
85°	2129	1817	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	4.2
10°-20°	823.3	12.0
20°-30°	1220.7	17.8
30°-40°	1377.1	20.1
40°-50°	1247.3	18.2
50°-60°	899.8	13.1
60°-70°	537.3	7.8
70°-80°	332.1	4.8
80°-90°	139.9	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°	2332.5	34.0
0°-40°	3709.6	54.0
0°-60°	5856.7	85.3
0°-90°	6866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3046	3046	3046	3046	3046	
5°	3050	3045	3033	3029	3040	290
15°	2940	2922	2911	2912	2923	829
25°	2679	2664	2651	2641	2649	1231
35°	2224	2221	2199	2200	2202	1392
45°	1655	1644	1632	1592	1568	1275
55°	1089	1055	992	943	941	972
65°	613	540	462	525	561	617
75°	344	298	263	328	379	367
85°	138	121	118	154	156	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3046.4	3046.4	3046.4	3046.4	3046.4
2.5°	3057.0	3048.5	3037.9	3044.2	3049.5
5°	3049.5	3045.3	3032.6	3029.4	3040.0
7.5°	3033.6	3023.0	3011.4	3016.7	3012.4
10°	3009.2	2999.7	2984.8	2985.9	2993.3
12.5°	2979.5	2967.9	2952.0	2956.2	2962.6
15°	2940.3	2922.3	2910.6	2911.7	2923.3
17.5°	2890.4	2876.7	2861.8	2865.0	2870.3
20°	2833.2	2825.7	2804.5	2798.2	2803.5
22.5°	2761.0	2747.2	2735.6	2732.4	2733.5
25°	2679.4	2664.5	2650.7	2641.2	2648.6
27.5°	2583.9	2571.2	2553.1	2550.0	2556.3
30°	2475.7	2466.2	2450.2	2446.0	2455.5
32.5°	2365.4	2349.5	2327.2	2327.2	2329.3
35°	2224.3	2221.1	2198.9	2199.9	2202.0
37.5°	2097.0	2082.2	2069.4	2056.7	2063.1
40°	1956.0	1939.0	1922.0	1913.5	1910.3
42.5°	1804.3	1791.5	1784.1	1753.4	1745.9
45°	1654.7	1644.1	1632.4	1592.1	1567.7
47.5°	1502.0	1499.8	1490.3	1419.2	1394.8
50°	1359.8	1356.7	1322.7	1247.4	1223.0
52.5°	1225.1	1203.9	1159.4	1085.1	1080.9
55°	1089.4	1055.4	991.8	943.0	940.9
57.5°	946.2	905.8	841.1	814.6	828.4
60°	831.6	770.1	695.8	699.0	721.3
62.5°	712.8	643.9	570.7	602.5	629.0
65°	613.1	539.9	462.5	525.1	561.1
67.5°	526.1	458.2	384.0	467.8	502.8
70°	454.0	398.8	326.7	414.7	454.0
72.5°	396.7	345.8	289.6	372.3	417.9
75°	343.7	298.1	263.1	327.8	378.7
77.5°	298.1	253.5	237.6	289.6	339.4
80°	250.3	210.0	207.9	252.4	289.6
82.5°	195.2	167.6	167.6	211.1	233.4
85°	137.9	120.9	117.7	153.8	155.9
87.5°	71.1	67.9	61.5	80.6	80.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)