

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: P293657

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293657
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-LD5-85-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6833.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

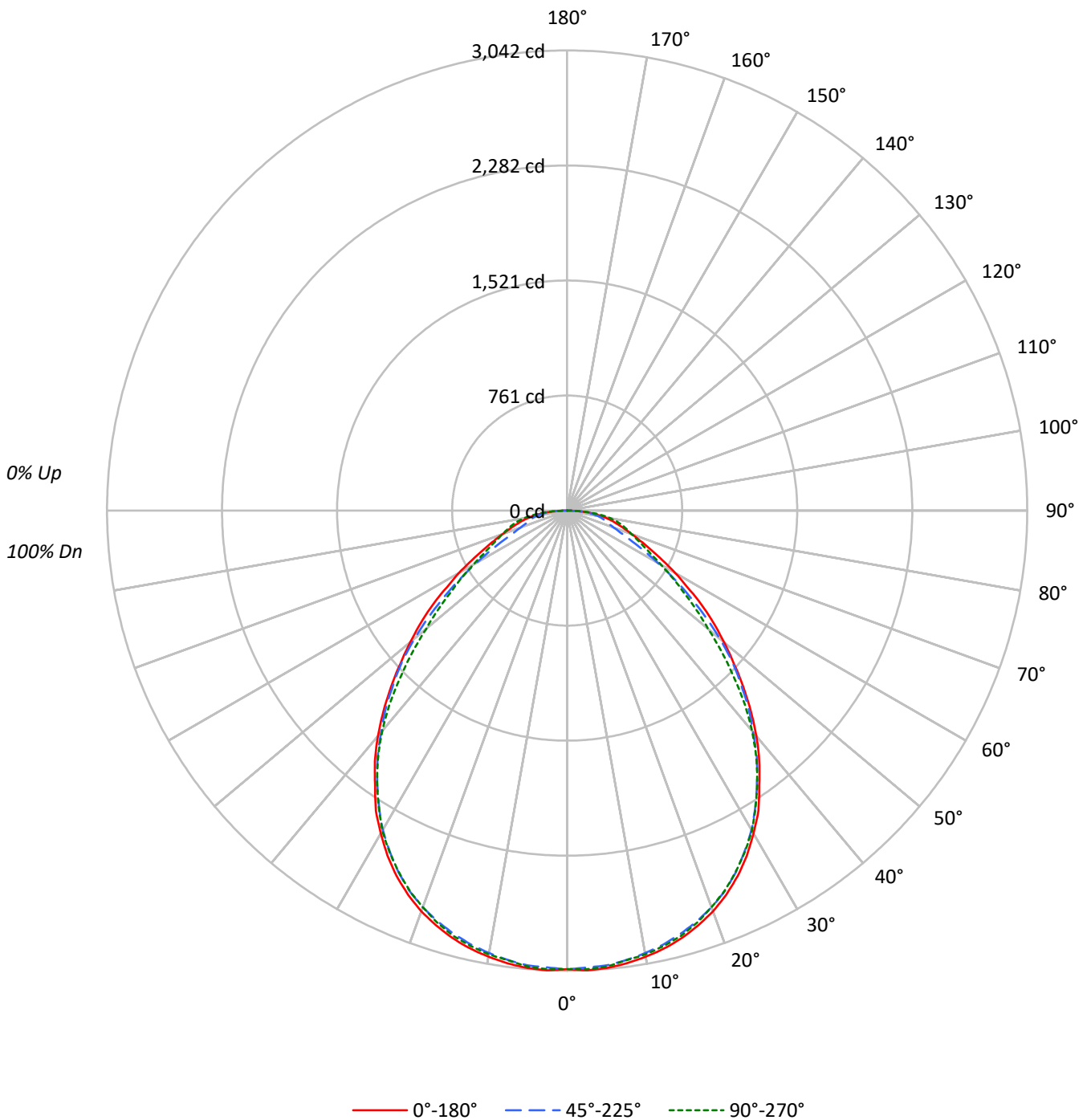
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4079	4079	4079
5°	4099	4076	4086
10°	4092	4058	4070
15°	4076	4035	4053
20°	4037	3996	3995
25°	3959	3916	3913
30°	3828	3789	3797
35°	3636	3594	3600
40°	3419	3360	3339
45°	3134	3091	2969
50°	2833	2756	2548
55°	2543	2315	2196
60°	2227	1864	1932
65°	1942	1465	1778
70°	1777	1279	1777
75°	1778	1361	1959
80°	1930	1603	2233
85°	2118	1809	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	4.2
10°-20°	819.3	12.0
20°-30°	1214.9	17.8
30°-40°	1370.5	20.1
40°-50°	1241.3	18.2
50°-60°	895.5	13.1
60°-70°	534.7	7.8
70°-80°	330.5	4.8
80°-90°	139.2	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°	2321.3	34.0
0°-40°	3691.8	54.0
0°-60°	5828.6	85.3
0°-90°	6833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3032	3032	3032	3032	3032	
5°	3035	3031	3018	3015	3025	288
15°	2926	2908	2897	2898	2909	825
25°	2666	2652	2638	2628	2636	1225
35°	2214	2210	2188	2189	2192	1385
45°	1647	1636	1625	1584	1560	1269
55°	1084	1050	987	938	936	968
65°	610	537	460	522	558	614
75°	342	297	262	326	377	365
85°	137	120	117	153	155	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3031.7	3031.7	3031.7	3031.7	3031.7
2.5°	3042.3	3033.8	3023.3	3029.6	3034.9
5°	3034.9	3030.7	3018.0	3014.8	3025.4
7.5°	3019.1	3008.5	2996.9	3002.2	2997.9
10°	2994.8	2985.3	2970.5	2971.6	2978.9
12.5°	2965.2	2953.6	2937.8	2942.0	2948.3
15°	2926.2	2908.2	2896.6	2897.7	2909.3
17.5°	2876.5	2862.8	2848.0	2851.2	2856.5
20°	2819.5	2812.2	2791.0	2784.7	2790.0
22.5°	2747.8	2734.0	2722.4	2719.3	2720.3
25°	2666.5	2651.7	2638.0	2628.5	2635.9
27.5°	2571.5	2558.8	2540.9	2537.7	2544.0
30°	2463.8	2454.3	2438.5	2434.2	2443.7
32.5°	2354.0	2338.2	2316.0	2316.0	2318.1
35°	2213.6	2210.5	2188.3	2189.3	2191.5
37.5°	2086.9	2072.2	2059.5	2046.8	2053.2
40°	1946.6	1929.7	1912.8	1904.3	1901.2
42.5°	1795.6	1782.9	1775.5	1744.9	1737.5
45°	1646.8	1636.2	1624.6	1584.5	1560.2
47.5°	1494.7	1492.6	1483.1	1412.4	1388.1
50°	1353.3	1350.1	1316.4	1241.4	1217.1
52.5°	1219.2	1198.1	1153.8	1079.9	1075.7
55°	1084.1	1050.3	987.0	938.4	936.3
57.5°	941.6	901.5	837.1	810.7	824.4
60°	827.6	766.4	692.5	695.6	717.8
62.5°	709.4	640.8	567.9	599.6	626.0
65°	610.1	537.3	460.2	522.5	558.4
67.5°	523.6	456.0	382.1	465.5	500.4
70°	451.8	396.9	325.1	412.7	451.8
72.5°	394.8	344.1	288.2	370.5	415.9
75°	342.0	296.6	261.8	326.2	376.9
77.5°	296.6	252.3	236.5	288.2	337.8
80°	249.1	209.0	206.9	251.2	288.2
82.5°	194.2	166.8	166.8	210.1	232.2
85°	137.2	120.3	117.2	153.1	155.2
87.5°	70.7	67.6	61.2	80.2	80.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)