

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: P293020

Luminaire Tested: **24GR-LD5-72-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F1-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7217.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

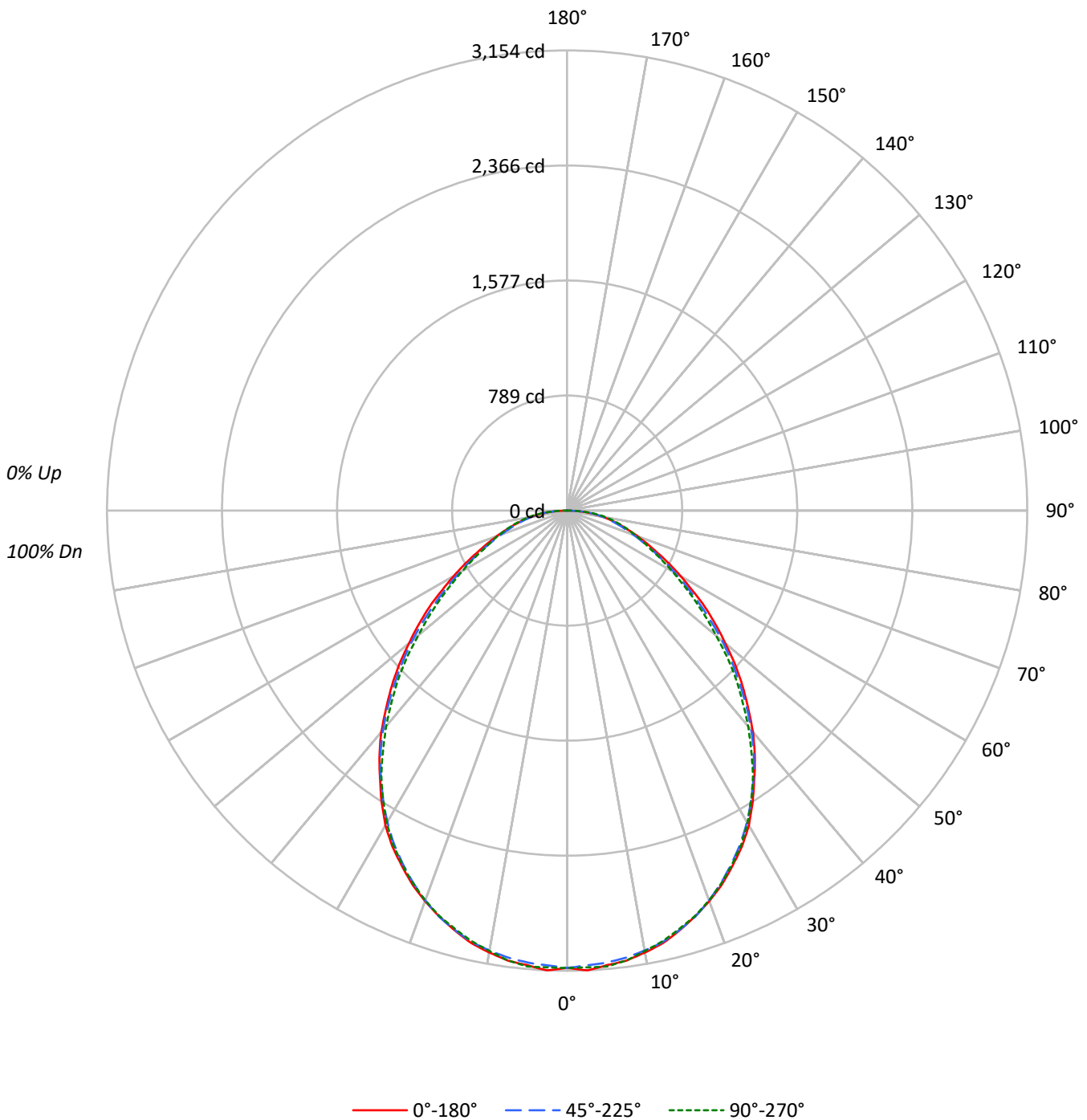
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4218	4218	4218
5°	4224	4200	4236
10°	4202	4183	4187
15°	4149	4145	4135
20°	4079	4071	4071
25°	3984	3962	3971
30°	3869	3830	3841
35°	3675	3658	3648
40°	3480	3449	3388
45°	3235	3178	3116
50°	2963	2898	2789
55°	2706	2584	2497
60°	2411	2295	2235
65°	2171	2057	2028
70°	2015	1891	1968
75°	1927	1842	1996
80°	1926	1926	2134
85°	1999	2022	2252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	4.1
10°-20°	837.8	11.6
20°-30°	1229.6	17.0
30°-40°	1390.2	19.3
40°-50°	1284.8	17.8
50°-60°	989.9	13.7
60°-70°	655.5	9.1
70°-80°	390.2	5.4
80°-90°	142.9	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°	2363.5	32.7
0°-40°	3753.7	52.0
0°-60°	6028.4	83.5
0°-90°	7217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3135	3135	3135	3135	3135	
5°	3128	3128	3110	3111	3136	297
15°	2979	2973	2976	2974	2968	840
25°	2684	2676	2669	2666	2675	1236
35°	2237	2234	2227	2216	2221	1400
45°	1700	1688	1670	1640	1637	1309
55°	1154	1130	1102	1072	1064	1029
65°	682	671	646	640	637	684
75°	371	362	354	371	384	395
85°	130	122	131	144	146	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3154.2	3137.9	3120.0	3120.0	3133.4
5°	3127.5	3127.5	3109.6	3111.1	3136.4
7.5°	3111.1	3102.1	3090.2	3090.2	3109.6
10°	3075.4	3067.9	3062.0	3059.0	3064.9
12.5°	3036.6	3024.7	3029.2	3024.7	3023.3
15°	2978.6	2972.6	2975.6	2974.1	2968.2
17.5°	2916.1	2913.1	2919.1	2908.6	2913.1
20°	2849.1	2840.2	2843.1	2837.2	2843.1
22.5°	2773.2	2767.2	2759.8	2752.3	2764.2
25°	2683.9	2676.4	2669.0	2666.0	2674.9
27.5°	2594.5	2582.6	2572.2	2569.2	2582.6
30°	2490.4	2477.0	2465.0	2462.1	2472.5
32.5°	2366.8	2363.8	2348.9	2343.0	2347.4
35°	2237.3	2234.3	2226.9	2216.5	2220.9
37.5°	2113.7	2112.3	2101.8	2084.0	2072.1
40°	1981.3	1970.8	1963.4	1938.1	1929.2
42.5°	1835.4	1832.4	1819.0	1790.7	1780.3
45°	1699.9	1688.0	1670.2	1640.4	1637.4
47.5°	1560.0	1543.6	1527.3	1490.0	1488.6
50°	1415.6	1403.7	1384.4	1347.1	1332.3
52.5°	1281.6	1265.3	1238.5	1202.8	1195.3
55°	1153.6	1129.8	1101.5	1071.8	1064.3
57.5°	1016.7	1006.3	972.0	948.2	939.3
60°	896.1	887.2	852.9	830.6	830.6
62.5°	787.4	774.0	744.3	729.4	729.4
65°	681.8	671.3	646.0	640.1	637.1
67.5°	591.0	577.6	559.7	558.2	565.7
70°	512.1	495.7	480.8	495.7	500.2
72.5°	437.6	427.2	413.8	433.2	442.1
75°	370.6	361.7	354.3	370.6	384.0
77.5°	309.6	300.7	300.7	318.6	330.5
80°	248.6	242.6	248.6	263.5	275.4
82.5°	190.5	186.1	193.5	208.4	215.8
85°	129.5	122.1	131.0	144.4	145.9
87.5°	61.0	59.5	65.5	74.4	72.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)