

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: P293017

Luminaire Tested: **24GR-LD5-72-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293017
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

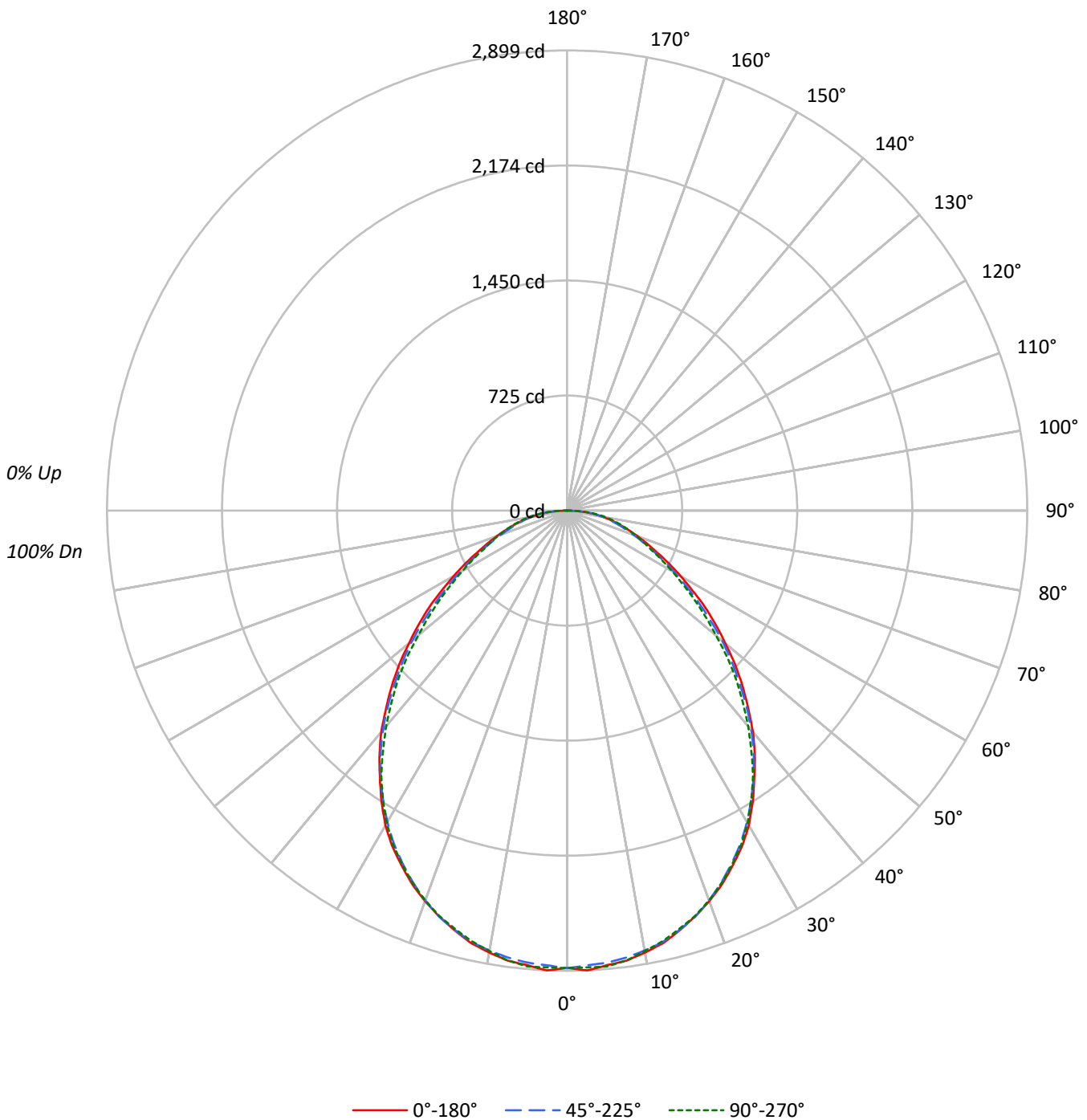
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3877	3877	3877
5°	3883	3861	3894
10°	3862	3845	3849
15°	3814	3810	3801
20°	3750	3742	3742
25°	3663	3642	3650
30°	3557	3520	3531
35°	3378	3362	3353
40°	3199	3170	3115
45°	2973	2921	2864
50°	2724	2664	2563
55°	2487	2375	2295
60°	2217	2110	2055
65°	1995	1890	1864
70°	1852	1739	1809
75°	1771	1693	1835
80°	1771	1771	1961
85°	1837	1859	2070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	4.1
10°-20°	770.1	11.6
20°-30°	1130.3	17.0
30°-40°	1277.9	19.3
40°-50°	1181.0	17.8
50°-60°	909.9	13.7
60°-70°	602.5	9.1
70°-80°	358.7	5.4
80°-90°	131.4	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°	2172.6	32.7
0°-40°	3450.4	52.0
0°-60°	5541.4	83.5
0°-90°	6634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2882	2882	2882	2882	2882	
5°	2875	2875	2858	2860	2883	273
15°	2738	2732	2735	2734	2728	772
25°	2467	2460	2453	2451	2459	1136
35°	2057	2054	2047	2037	2042	1287
45°	1563	1552	1535	1508	1505	1204
55°	1060	1038	1012	985	978	946
65°	627	617	594	588	586	628
75°	341	332	326	341	353	363
85°	119	112	120	133	134	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2881.7	2881.7	2881.7	2881.7	2881.7
2.5°	2899.4	2884.4	2868.0	2868.0	2880.3
5°	2874.8	2874.8	2858.4	2859.8	2883.0
7.5°	2859.8	2851.5	2840.6	2840.6	2858.4
10°	2826.9	2820.1	2814.6	2811.9	2817.3
12.5°	2791.3	2780.4	2784.5	2780.4	2779.0
15°	2738.0	2732.5	2735.2	2733.9	2728.4
17.5°	2680.5	2677.8	2683.2	2673.7	2677.8
20°	2618.9	2610.7	2613.5	2608.0	2613.5
22.5°	2549.2	2543.7	2536.8	2530.0	2540.9
25°	2467.1	2460.2	2453.4	2450.6	2458.8
27.5°	2385.0	2374.0	2364.4	2361.7	2374.0
30°	2289.2	2276.9	2265.9	2263.2	2272.8
32.5°	2175.6	2172.9	2159.2	2153.7	2157.8
35°	2056.6	2053.8	2047.0	2037.4	2041.5
37.5°	1943.0	1941.6	1932.0	1915.6	1904.7
40°	1821.2	1811.6	1804.8	1781.5	1773.3
42.5°	1687.1	1684.4	1672.1	1646.1	1636.5
45°	1562.6	1551.7	1535.2	1507.9	1505.1
47.5°	1434.0	1418.9	1403.9	1369.7	1368.3
50°	1301.3	1290.3	1272.5	1238.3	1224.6
52.5°	1178.1	1163.1	1138.4	1105.6	1098.7
55°	1060.4	1038.5	1012.5	985.2	978.3
57.5°	934.6	925.0	893.5	871.6	863.4
60°	823.7	815.5	784.0	763.5	763.5
62.5°	723.8	711.5	684.2	670.5	670.5
65°	626.7	617.1	593.8	588.4	585.6
67.5°	543.2	530.9	514.5	513.1	520.0
70°	470.7	455.6	442.0	455.6	459.8
72.5°	402.3	392.7	380.4	398.2	406.4
75°	340.7	332.5	325.7	340.7	353.0
77.5°	284.6	276.4	276.4	292.8	303.8
80°	228.5	223.0	228.5	242.2	253.1
82.5°	175.1	171.0	177.9	191.6	198.4
85°	119.0	112.2	120.4	132.7	134.1
87.5°	56.1	54.7	60.2	68.4	67.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)