

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: P293153

Luminaire Tested: **24GR-LD5-85-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293153
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-LD5-85-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6754.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

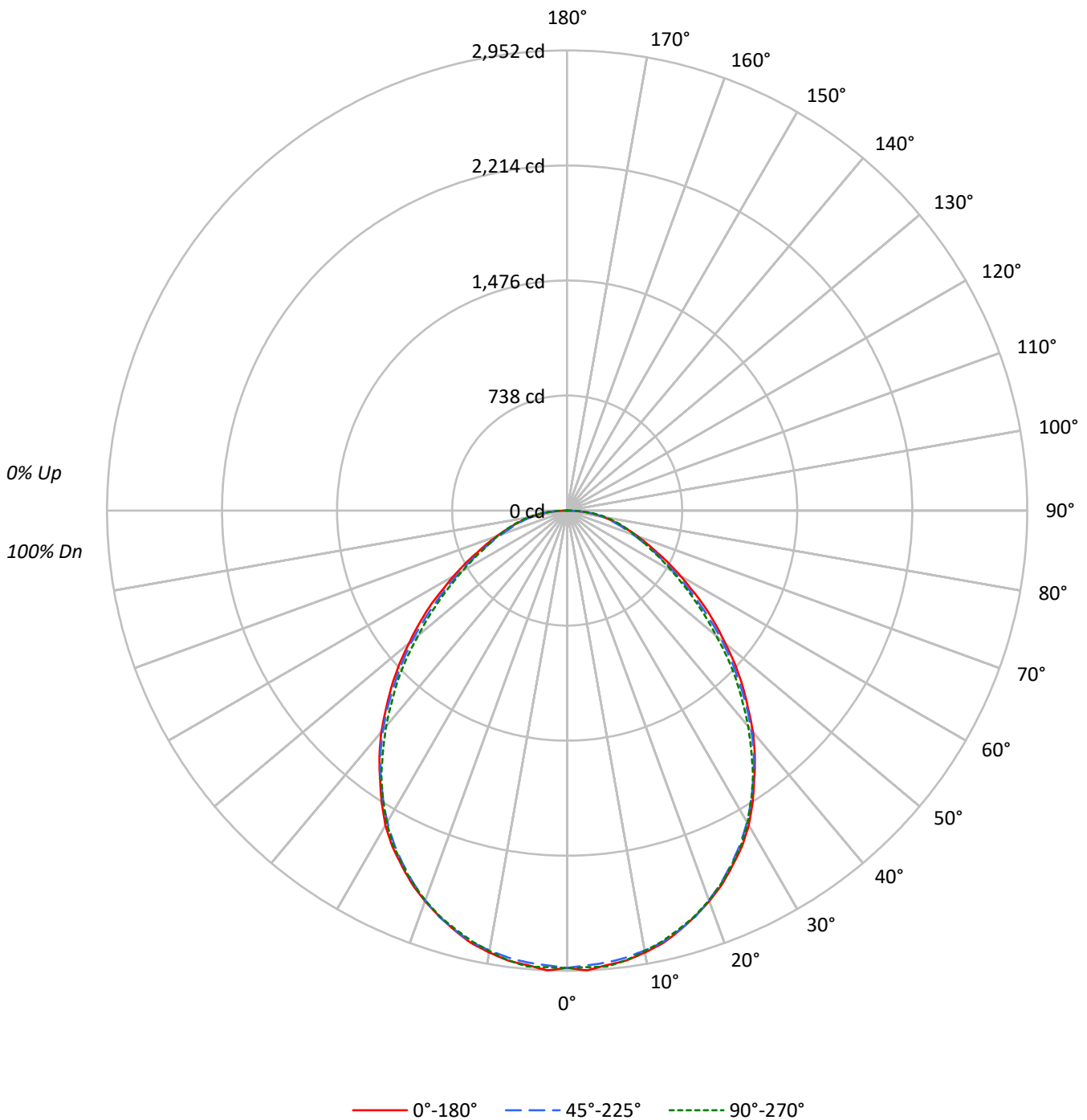
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3947	3947	3947
5°	3953	3930	3964
10°	3932	3915	3919
15°	3883	3879	3869
20°	3818	3810	3810
25°	3729	3708	3716
30°	3621	3584	3595
35°	3439	3423	3414
40°	3257	3227	3171
45°	3027	2974	2916
50°	2773	2712	2610
55°	2533	2418	2336
60°	2257	2148	2092
65°	2031	1925	1898
70°	1885	1770	1841
75°	1803	1723	1868
80°	1802	1802	1997
85°	1871	1893	2107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	4.1
10°-20°	784.1	11.6
20°-30°	1150.7	17.0
30°-40°	1301.0	19.3
40°-50°	1202.4	17.8
50°-60°	926.4	13.7
60°-70°	613.4	9.1
70°-80°	365.2	5.4
80°-90°	133.8	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°	2211.9	32.7
0°-40°	3512.9	52.0
0°-60°	5641.6	83.5
0°-90°	6754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2934	2934	2934	2934	2934	
5°	2927	2927	2910	2912	2935	278
15°	2788	2782	2785	2783	2778	786
25°	2512	2505	2498	2495	2503	1157
35°	2094	2091	2084	2074	2078	1310
45°	1591	1580	1563	1535	1532	1225
55°	1080	1057	1031	1003	996	963
65°	638	628	605	599	596	640
75°	347	338	332	347	359	370
85°	121	114	123	135	136	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2933.8	2933.8	2933.8	2933.8	2933.8
2.5°	2951.9	2936.6	2919.8	2919.8	2932.4
5°	2926.8	2926.8	2910.1	2911.5	2935.2
7.5°	2911.5	2903.1	2892.0	2892.0	2910.1
10°	2878.1	2871.1	2865.5	2862.7	2868.3
12.5°	2841.8	2830.7	2834.9	2830.7	2829.3
15°	2787.5	2781.9	2784.7	2783.3	2777.8
17.5°	2729.0	2726.2	2731.8	2722.0	2726.2
20°	2666.3	2658.0	2660.7	2655.2	2660.7
22.5°	2595.3	2589.7	2582.7	2575.8	2586.9
25°	2511.7	2504.7	2497.8	2495.0	2503.3
27.5°	2428.1	2417.0	2407.2	2404.4	2417.0
30°	2330.6	2318.0	2306.9	2304.1	2313.9
32.5°	2215.0	2212.2	2198.2	2192.7	2196.9
35°	2093.8	2091.0	2084.0	2074.3	2078.4
37.5°	1978.1	1976.7	1967.0	1950.3	1939.1
40°	1854.2	1844.4	1837.4	1813.8	1805.4
42.5°	1717.6	1714.9	1702.3	1675.8	1666.1
45°	1590.9	1579.7	1563.0	1535.1	1532.4
47.5°	1459.9	1444.6	1429.3	1394.4	1393.1
50°	1324.8	1313.7	1295.5	1260.7	1246.8
52.5°	1199.4	1184.1	1159.0	1125.6	1118.6
55°	1079.6	1057.3	1030.9	1003.0	996.0
57.5°	951.5	941.7	909.7	887.4	879.0
60°	838.6	830.3	798.2	777.3	777.3
62.5°	736.9	724.4	696.5	682.6	682.6
65°	638.0	628.3	604.6	599.0	596.2
67.5°	553.0	540.5	523.8	522.4	529.4
70°	479.2	463.9	450.0	463.9	468.1
72.5°	409.6	399.8	387.3	405.4	413.7
75°	346.9	338.5	331.5	346.9	359.4
77.5°	289.8	281.4	281.4	298.1	309.3
80°	232.6	227.1	232.6	246.6	257.7
82.5°	178.3	174.1	181.1	195.0	202.0
85°	121.2	114.2	122.6	135.1	136.5
87.5°	57.1	55.7	61.3	69.7	68.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)