

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: P293152

Luminaire Tested: **24GR-LD5-85-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293152
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6495.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

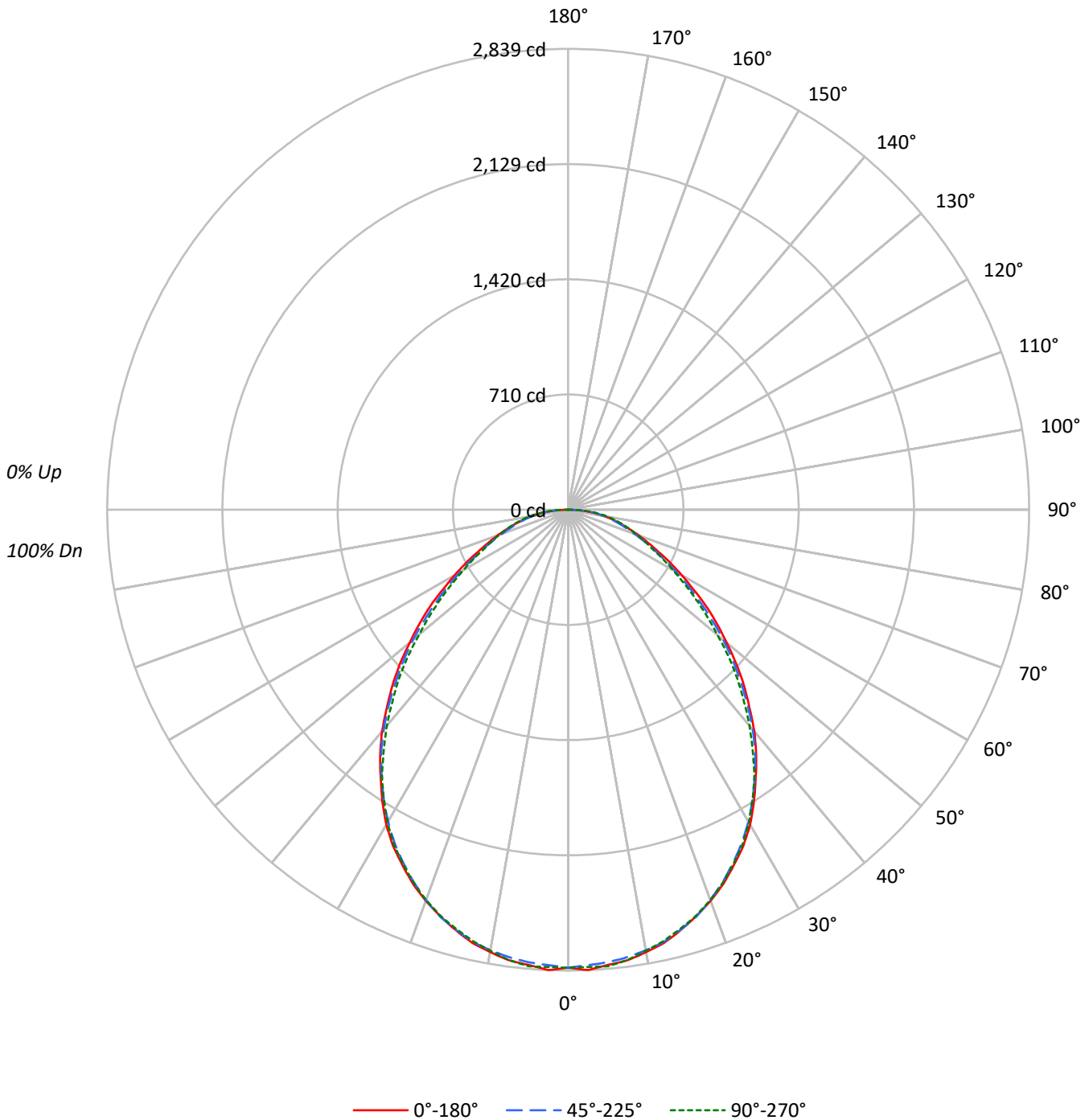
Input Watts (W): 62.217
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3796	3796	3796
5°	3801	3780	3812
10°	3781	3765	3769
15°	3734	3730	3721
20°	3671	3664	3664
25°	3586	3566	3574
30°	3482	3447	3457
35°	3307	3292	3283
40°	3132	3104	3049
45°	2911	2860	2804
50°	2667	2608	2510
55°	2435	2325	2247
60°	2170	2066	2012
65°	1954	1851	1826
70°	1813	1702	1771
75°	1734	1657	1797
80°	1733	1733	1920
85°	1798	1820	2027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	4.1
10°-20°	754.0	11.6
20°-30°	1106.6	17.0
30°-40°	1251.1	19.3
40°-50°	1156.3	17.8
50°-60°	890.9	13.7
60°-70°	589.9	9.1
70°-80°	351.2	5.4
80°-90°	128.6	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°	2127.1	32.7
0°-40°	3378.2	52.0
0°-60°	5425.3	83.5
0°-90°	6495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2821	2821	2821	2821	2821	
5°	2815	2815	2798	2800	2823	267
15°	2681	2675	2678	2677	2671	756
25°	2415	2409	2402	2399	2407	1112
35°	2014	2011	2004	1995	1999	1260
45°	1530	1519	1503	1476	1474	1178
55°	1038	1017	991	964	958	926
65°	614	604	581	576	573	615
75°	334	326	319	334	346	356
85°	116	110	118	130	131	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2821.3	2821.3	2821.3	2821.3	2821.3
2.5°	2838.7	2824.0	2807.9	2807.9	2819.9
5°	2814.6	2814.6	2798.5	2799.8	2822.6
7.5°	2799.8	2791.8	2781.1	2781.1	2798.5
10°	2767.7	2761.0	2755.6	2753.0	2758.3
12.5°	2732.9	2722.1	2726.2	2722.1	2720.8
15°	2680.6	2675.3	2677.9	2676.6	2671.2
17.5°	2624.3	2621.7	2627.0	2617.6	2621.7
20°	2564.1	2556.0	2558.7	2553.3	2558.7
22.5°	2495.7	2490.4	2483.7	2477.0	2487.7
25°	2415.4	2408.7	2402.0	2399.3	2407.3
27.5°	2335.0	2324.3	2314.9	2312.2	2324.3
30°	2241.2	2229.2	2218.4	2215.8	2225.1
32.5°	2130.0	2127.3	2113.9	2108.6	2112.6
35°	2013.5	2010.8	2004.1	1994.7	1998.7
37.5°	1902.3	1900.9	1891.6	1875.5	1864.8
40°	1783.1	1773.7	1767.0	1744.2	1736.2
42.5°	1651.8	1649.1	1637.0	1611.6	1602.2
45°	1529.9	1519.1	1503.1	1476.3	1473.6
47.5°	1403.9	1389.2	1374.5	1341.0	1339.6
50°	1274.0	1263.3	1245.9	1212.4	1199.0
52.5°	1153.4	1138.7	1114.6	1082.4	1075.7
55°	1038.2	1016.8	991.3	964.5	957.8
57.5°	915.0	905.6	874.8	853.3	845.3
60°	806.5	798.4	767.6	747.5	747.5
62.5°	708.7	696.6	669.8	656.4	656.4
65°	613.6	604.2	581.4	576.0	573.4
67.5°	531.8	519.8	503.7	502.4	509.1
70°	460.8	446.1	432.7	446.1	450.1
72.5°	393.9	384.5	372.4	389.8	397.9
75°	333.6	325.5	318.8	333.6	345.6
77.5°	278.6	270.6	270.6	286.7	297.4
80°	223.7	218.4	223.7	237.1	247.8
82.5°	171.5	167.5	174.2	187.5	194.2
85°	116.5	109.9	117.9	129.9	131.3
87.5°	54.9	53.6	58.9	67.0	65.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)