

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: P293150

Luminaire Tested: **24GR-LD5-72-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293150
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6816.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

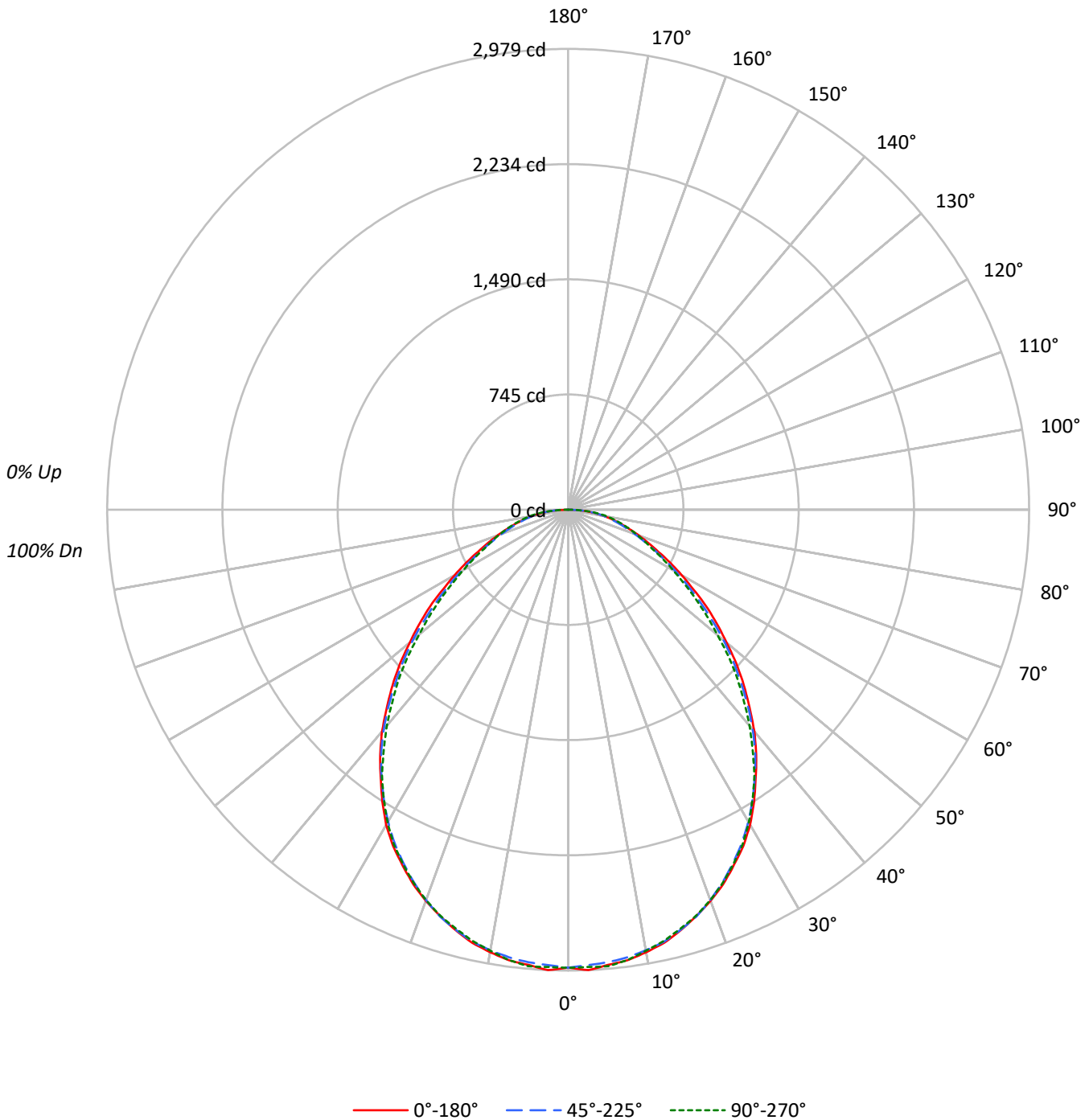
Input Watts (W): 54.126
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3984	3984	3984
5°	3989	3967	4001
10°	3968	3951	3955
15°	3919	3915	3905
20°	3853	3845	3845
25°	3763	3742	3751
30°	3654	3617	3628
35°	3471	3454	3445
40°	3287	3257	3200
45°	3055	3001	2943
50°	2799	2737	2634
55°	2556	2440	2358
60°	2277	2168	2111
65°	2050	1942	1916
70°	1902	1786	1858
75°	1820	1739	1886
80°	1819	1819	2015
85°	1888	1910	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	4.1
10°-20°	791.3	11.6
20°-30°	1161.3	17.0
30°-40°	1312.9	19.3
40°-50°	1213.4	17.8
50°-60°	934.9	13.7
60°-70°	619.1	9.1
70°-80°	368.5	5.4
80°-90°	135.0	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°	2232.2	32.7
0°-40°	3545.1	52.0
0°-60°	5693.4	83.5
0°-90°	6816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2961	2961	2961	2961	2961	
5°	2954	2954	2937	2938	2962	281
15°	2813	2808	2810	2809	2803	793
25°	2535	2528	2521	2518	2526	1167
35°	2113	2110	2103	2093	2098	1322
45°	1606	1594	1577	1549	1546	1237
55°	1090	1067	1040	1012	1005	972
65°	644	634	610	604	602	646
75°	350	342	335	350	363	373
85°	122	115	124	136	138	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	2979.0	2963.5	2946.7	2946.7	2959.3
5°	2953.7	2953.7	2936.8	2938.2	2962.1
7.5°	2938.2	2929.8	2918.5	2918.5	2936.8
10°	2904.5	2897.4	2891.8	2889.0	2894.6
12.5°	2867.9	2856.7	2860.9	2856.7	2855.3
15°	2813.1	2807.5	2810.3	2808.9	2803.3
17.5°	2754.0	2751.2	2756.9	2747.0	2751.2
20°	2690.8	2682.4	2685.2	2679.5	2685.2
22.5°	2619.1	2613.5	2606.4	2599.4	2610.7
25°	2534.7	2527.7	2520.7	2517.9	2526.3
27.5°	2450.4	2439.1	2429.3	2426.5	2439.1
30°	2352.0	2339.3	2328.1	2325.3	2335.1
32.5°	2235.3	2232.5	2218.4	2212.8	2217.0
35°	2113.0	2110.2	2103.1	2093.3	2097.5
37.5°	1996.3	1994.9	1985.1	1968.2	1956.9
40°	1871.2	1861.3	1854.3	1830.4	1822.0
42.5°	1733.4	1730.6	1717.9	1691.2	1681.4
45°	1605.5	1594.2	1577.4	1549.2	1546.4
47.5°	1473.3	1457.9	1442.4	1407.3	1405.8
50°	1337.0	1325.7	1307.4	1272.3	1258.2
52.5°	1210.4	1195.0	1169.7	1135.9	1128.9
55°	1089.5	1067.0	1040.3	1012.2	1005.2
57.5°	960.2	950.4	918.0	895.5	887.1
60°	846.3	837.9	805.5	784.5	784.5
62.5°	743.7	731.0	702.9	688.9	688.9
65°	643.9	634.0	610.1	604.5	601.7
67.5°	558.1	545.5	528.6	527.2	534.2
70°	483.6	468.1	454.1	468.1	472.4
72.5°	413.3	403.5	390.8	409.1	417.5
75°	350.1	341.6	334.6	350.1	362.7
77.5°	292.4	284.0	284.0	300.9	312.1
80°	234.8	229.2	234.8	248.8	260.1
82.5°	179.9	175.7	182.8	196.8	203.8
85°	122.3	115.3	123.7	136.4	137.8
87.5°	57.6	56.2	61.9	70.3	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)