

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: P293018

Luminaire Tested: **24GR-LD5-72-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293018
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6826.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

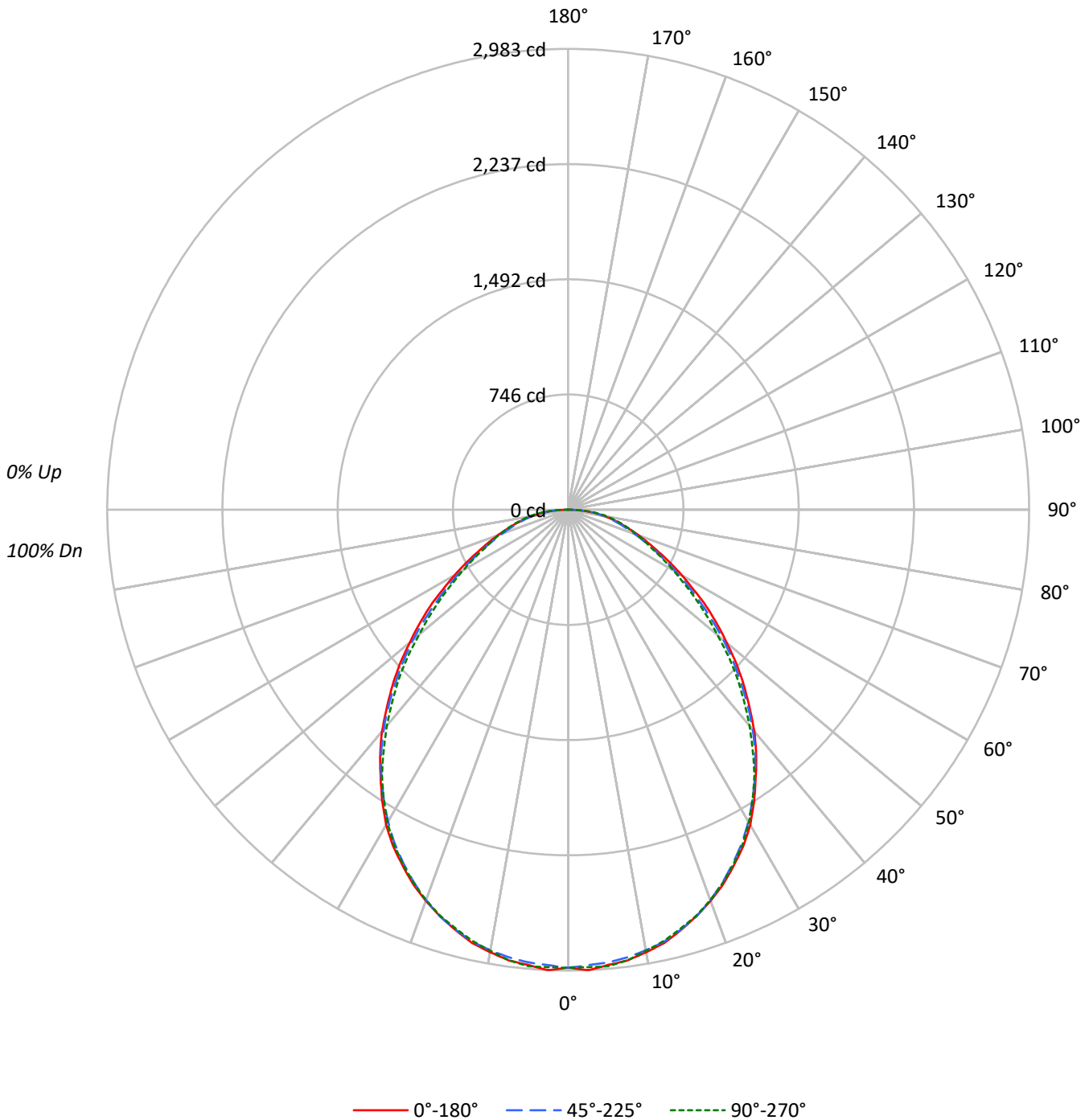
Input Watts (W): 52.173
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3990	3990	3990
5°	3995	3972	4007
10°	3974	3957	3961
15°	3924	3920	3911
20°	3858	3850	3850
25°	3769	3748	3756
30°	3659	3622	3633
35°	3476	3460	3450
40°	3291	3262	3205
45°	3059	3006	2947
50°	2803	2741	2638
55°	2559	2444	2362
60°	2281	2171	2114
65°	2053	1945	1918
70°	1905	1789	1861
75°	1823	1742	1888
80°	1822	1822	2018
85°	1891	1913	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.0	4.1
10°-20°	792.4	11.6
20°-30°	1163.0	17.0
30°-40°	1314.9	19.3
40°-50°	1215.2	17.8
50°-60°	936.3	13.7
60°-70°	620.0	9.1
70°-80°	369.1	5.4
80°-90°	135.2	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°	2235.5	32.7
0°-40°	3550.3	52.0
0°-60°	5701.8	83.5
0°-90°	6826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2965	2965	2965	2965	2965	
5°	2958	2958	2941	2942	2966	281
15°	2817	2812	2814	2813	2807	794
25°	2538	2531	2524	2522	2530	1169
35°	2116	2113	2106	2096	2101	1324
45°	1608	1597	1580	1552	1549	1238
55°	1091	1069	1042	1014	1007	973
65°	645	635	611	605	603	646
75°	351	342	335	351	363	374
85°	122	115	124	137	138	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2965.1	2965.1	2965.1	2965.1	2965.1
2.5°	2983.4	2967.9	2951.0	2951.0	2963.6
5°	2958.0	2958.0	2941.1	2942.5	2966.5
7.5°	2942.5	2934.1	2922.8	2922.8	2941.1
10°	2908.7	2901.7	2896.1	2893.2	2898.9
12.5°	2872.1	2860.9	2865.1	2860.9	2859.5
15°	2817.2	2811.6	2814.4	2813.0	2807.4
17.5°	2758.1	2755.3	2760.9	2751.1	2755.3
20°	2694.7	2686.3	2689.1	2683.5	2689.1
22.5°	2622.9	2617.3	2610.3	2603.2	2614.5
25°	2538.5	2531.4	2524.4	2521.6	2530.0
27.5°	2454.0	2442.7	2432.9	2430.0	2442.7
30°	2355.4	2342.8	2331.5	2328.7	2338.5
32.5°	2238.6	2235.8	2221.7	2216.0	2220.3
35°	2116.1	2113.3	2106.2	2096.4	2100.6
37.5°	1999.2	1997.8	1988.0	1971.1	1959.8
40°	1873.9	1864.1	1857.0	1833.1	1824.6
42.5°	1735.9	1733.1	1720.5	1693.7	1683.9
45°	1607.8	1596.6	1579.7	1551.5	1548.7
47.5°	1475.5	1460.0	1444.5	1409.3	1407.9
50°	1338.9	1327.7	1309.4	1274.2	1260.1
52.5°	1212.2	1196.7	1171.4	1137.6	1130.5
55°	1091.1	1068.6	1041.9	1013.7	1006.7
57.5°	961.6	951.7	919.4	896.8	888.4
60°	847.6	839.1	806.7	785.6	785.6
62.5°	744.8	732.1	704.0	689.9	689.9
65°	644.8	635.0	611.0	605.4	602.6
67.5°	558.9	546.3	529.4	528.0	535.0
70°	484.3	468.8	454.8	468.8	473.1
72.5°	413.9	404.1	391.4	409.7	418.1
75°	350.6	342.1	335.1	350.6	363.2
77.5°	292.8	284.4	284.4	301.3	312.6
80°	235.1	229.5	235.1	249.2	260.5
82.5°	180.2	176.0	183.0	197.1	204.1
85°	122.5	115.4	123.9	136.6	138.0
87.5°	57.7	56.3	61.9	70.4	69.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)