

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: P293197

Luminaire Tested: **24GR-LD5-72-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7230.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

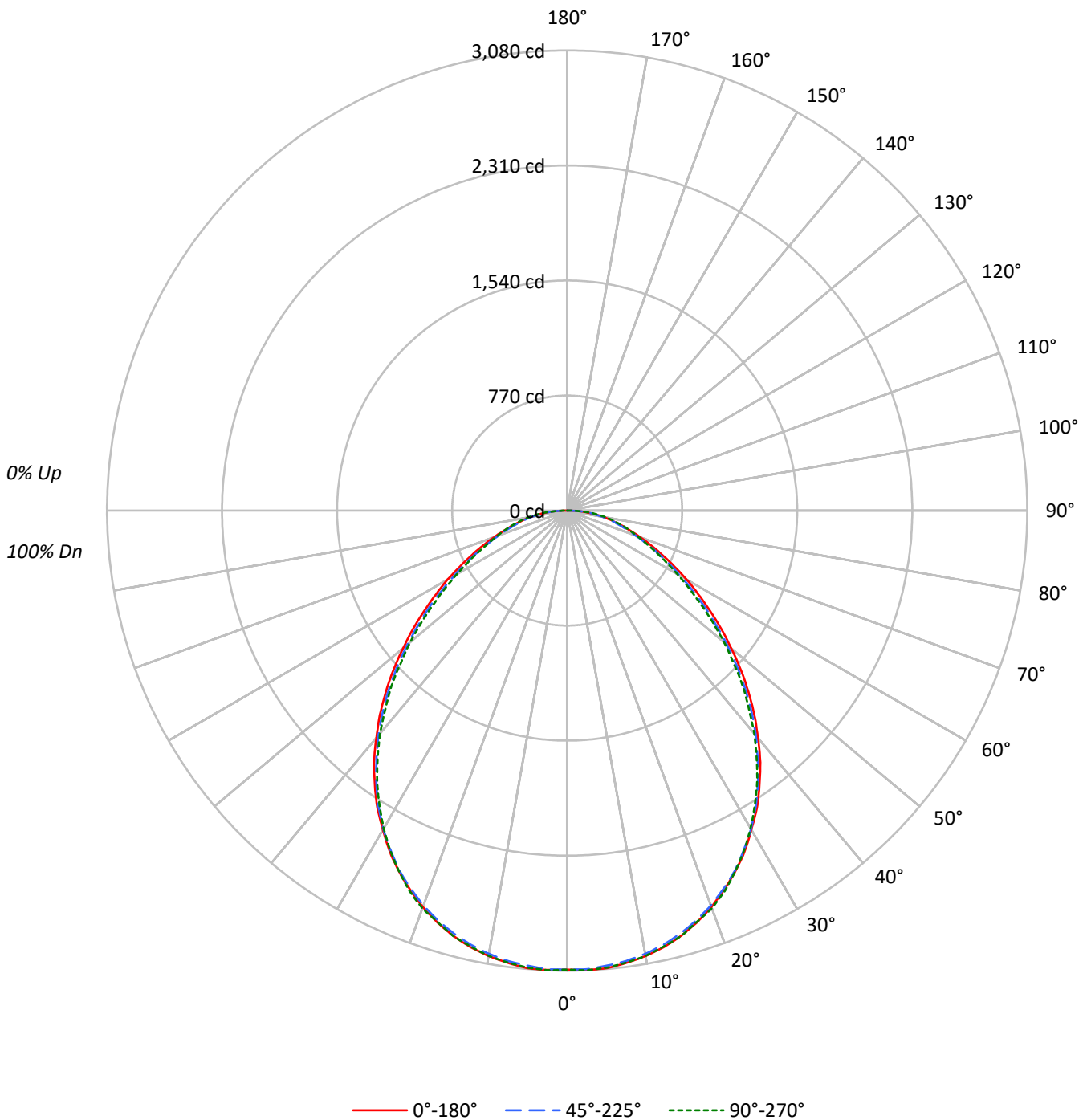
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293197

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P293197

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L83050-W2A1-U-3500K

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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4134	4134	4134
5°	4153	4130	4147
10°	4136	4116	4135
15°	4104	4082	4107
20°	4044	4027	4057
25°	3956	3946	3954
30°	3831	3824	3815
35°	3687	3659	3644
40°	3489	3450	3422
45°	3264	3204	3165
50°	3000	2919	2869
55°	2736	2635	2558
60°	2485	2351	2290
65°	2238	2112	2076
70°	2050	1916	1969
75°	1915	1827	1962
80°	1900	1865	2049
85°	1936	1954	2234



TEST NUMBER: P293197

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	4.0
10°-20°	826.8	11.4
20°-30°	1221.4	16.9
30°-40°	1388.6	19.2
40°-50°	1296.8	17.9
50°-60°	1008.5	13.9
60°-70°	669.1	9.3
70°-80°	387.2	5.4
80°-90°	140.8	1.9
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°	2339.0	32.4
0°-40°	3727.6	51.6
0°-60°	6032.8	83.4
0°-90°	7230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3073	3073	3073	3073	3073	
5°	3075	3059	3058	3064	3070	292
15°	2946	2932	2930	2929	2948	830
25°	2665	2654	2658	2652	2664	1225
35°	2244	2233	2227	2212	2218	1401
45°	1716	1702	1684	1662	1664	1322
55°	1166	1149	1123	1094	1090	1046
65°	703	682	663	651	652	702
75°	368	359	352	367	378	394
85°	125	123	127	144	145	136
90°	0	0	0	0	0	



TEST NUMBER: P293197

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3072.7	3072.7	3072.7	3072.7	3072.7
2.5°	3077.3	3068.2	3072.7	3069.4	3079.5
5°	3075.0	3059.2	3058.1	3063.7	3070.5
7.5°	3053.5	3036.6	3040.0	3040.0	3051.3
10°	3027.5	3010.6	3012.9	3014.0	3026.4
12.5°	2992.5	2975.6	2976.7	2975.6	2988.0
15°	2946.2	2931.5	2930.4	2929.2	2948.4
17.5°	2889.7	2869.3	2876.1	2877.2	2887.4
20°	2824.1	2808.3	2812.8	2811.7	2833.2
22.5°	2746.1	2734.8	2738.2	2736.0	2756.3
25°	2664.8	2653.5	2658.0	2652.4	2663.7
27.5°	2573.2	2565.3	2560.8	2557.4	2565.3
30°	2465.9	2461.4	2461.4	2446.7	2455.7
32.5°	2364.2	2349.5	2349.5	2343.8	2338.2
35°	2244.4	2233.1	2227.4	2211.6	2218.4
37.5°	2124.6	2098.6	2096.3	2083.9	2083.9
40°	1986.7	1972.0	1964.1	1950.6	1948.3
42.5°	1855.6	1840.9	1827.4	1804.8	1800.3
45°	1715.5	1701.9	1683.9	1662.4	1663.5
47.5°	1576.5	1557.3	1540.3	1514.3	1510.9
50°	1433.0	1419.4	1394.5	1371.9	1370.8
52.5°	1298.5	1277.0	1254.4	1227.3	1227.3
55°	1166.3	1149.3	1123.3	1093.9	1090.5
57.5°	1039.7	1023.9	994.5	973.0	967.4
60°	923.3	900.7	873.6	855.5	851.0
62.5°	806.9	786.6	766.2	748.1	747.0
65°	702.9	681.5	663.4	650.9	652.1
67.5°	609.1	591.0	570.7	567.3	568.4
70°	521.0	501.8	487.1	495.0	500.6
72.5°	437.3	427.2	417.0	428.3	436.2
75°	368.4	359.4	351.5	367.3	377.5
77.5°	305.1	298.3	297.2	310.8	319.8
80°	245.2	237.3	240.7	256.5	264.4
82.5°	186.5	180.8	181.9	201.2	206.8
85°	125.4	123.2	126.6	143.5	144.7
87.5°	66.7	66.7	68.9	79.1	75.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)