

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: P293271

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293271
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-L82765-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: 7061.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

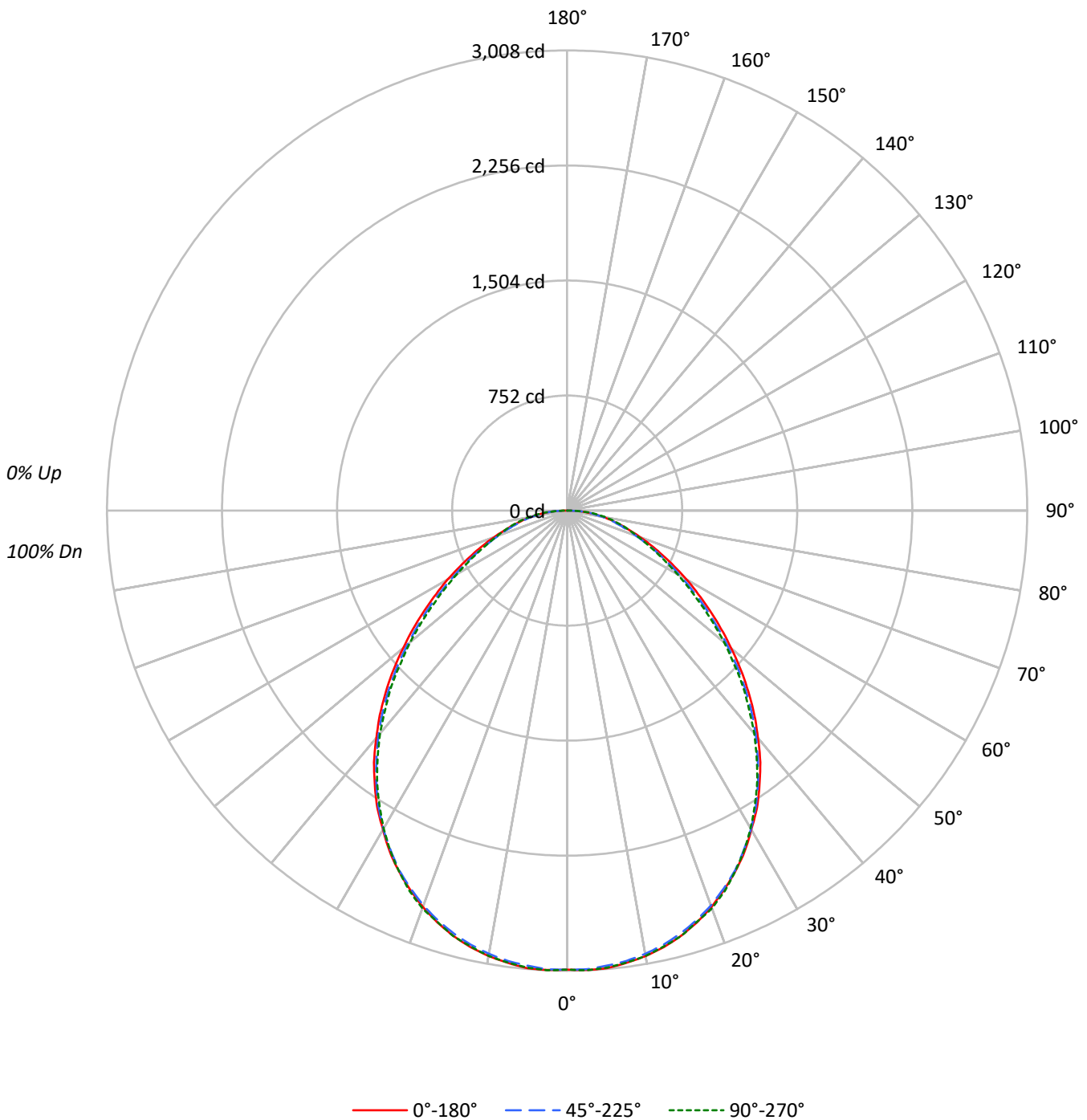
Input Watts (W): 52.824
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4038	4038	4038
5°	4056	4034	4050
10°	4040	4020	4038
15°	4008	3986	4011
20°	3949	3933	3962
25°	3864	3854	3862
30°	3741	3735	3726
35°	3600	3573	3559
40°	3408	3369	3342
45°	3188	3129	3091
50°	2929	2851	2802
55°	2672	2574	2499
60°	2426	2296	2236
65°	2186	2063	2027
70°	2002	1871	1923
75°	1870	1784	1916
80°	1856	1822	2001
85°	1891	1908	2181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	4.0
10°-20°	807.4	11.4
20°-30°	1192.8	16.9
30°-40°	1356.1	19.2
40°-50°	1266.5	17.9
50°-60°	984.9	13.9
60°-70°	653.5	9.3
70°-80°	378.2	5.4
80°-90°	137.5	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°	2284.3	32.4
0°-40°	3640.5	51.6
0°-60°	5891.8	83.4
0°-90°	7061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3001	3001	3001	3001	3001	
5°	3003	2988	2987	2992	2999	285
15°	2877	2863	2862	2861	2880	811
25°	2602	2592	2596	2590	2601	1197
35°	2192	2181	2175	2160	2166	1368
45°	1675	1662	1644	1624	1625	1291
55°	1139	1122	1097	1068	1065	1021
65°	686	666	648	636	637	686
75°	360	351	343	359	369	385
85°	122	120	124	140	141	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	3005.3	2996.5	3000.9	2997.6	3007.5
5°	3003.1	2987.7	2986.6	2992.1	2998.7
7.5°	2982.2	2965.6	2968.9	2968.9	2980.0
10°	2956.8	2940.2	2942.4	2943.5	2955.7
12.5°	2922.6	2906.0	2907.1	2906.0	2918.1
15°	2877.3	2863.0	2861.9	2860.8	2879.5
17.5°	2822.1	2802.3	2808.9	2810.0	2819.9
20°	2758.1	2742.7	2747.1	2746.0	2766.9
22.5°	2682.0	2670.9	2674.2	2672.0	2691.9
25°	2602.5	2591.5	2595.9	2590.4	2601.4
27.5°	2513.1	2505.4	2501.0	2497.6	2505.4
30°	2408.2	2403.8	2403.8	2389.5	2398.3
32.5°	2308.9	2294.6	2294.6	2289.0	2283.5
35°	2191.9	2180.9	2175.4	2159.9	2166.5
37.5°	2074.9	2049.5	2047.3	2035.2	2035.2
40°	1940.3	1925.9	1918.2	1905.0	1902.8
42.5°	1812.3	1797.9	1784.7	1762.6	1758.2
45°	1675.4	1662.2	1644.5	1623.5	1624.6
47.5°	1539.6	1520.9	1504.3	1478.9	1475.6
50°	1399.5	1386.2	1361.9	1339.9	1338.8
52.5°	1268.1	1247.2	1225.1	1198.6	1198.6
55°	1139.0	1122.4	1097.1	1068.4	1065.1
57.5°	1015.4	999.9	971.2	950.3	944.8
60°	901.7	879.6	853.1	835.5	831.1
62.5°	788.0	768.2	748.3	730.6	729.5
65°	686.5	665.5	647.9	635.7	636.8
67.5°	594.9	577.2	557.4	554.1	555.2
70°	508.8	490.0	475.7	483.4	488.9
72.5°	427.1	417.2	407.3	418.3	426.0
75°	359.8	351.0	343.2	358.7	368.6
77.5°	298.0	291.4	290.3	303.5	312.3
80°	239.5	231.8	235.1	250.5	258.3
82.5°	182.1	176.6	177.7	196.5	202.0
85°	122.5	120.3	123.6	140.2	141.3
87.5°	65.1	65.1	67.3	77.3	73.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)