

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: P293776

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7230.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

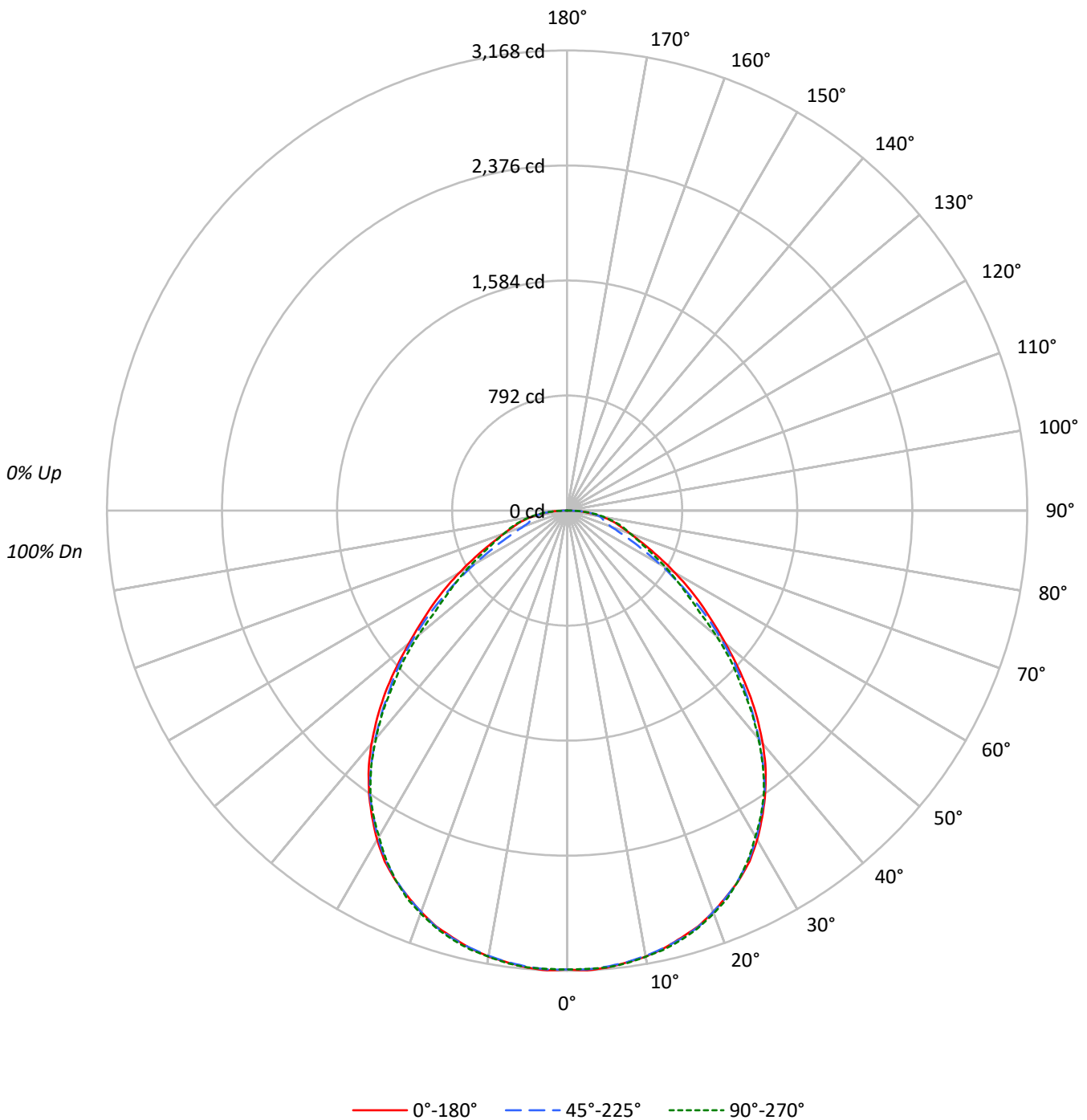
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4251	4251	4251
5°	4265	4256	4264
10°	4259	4253	4261
15°	4239	4247	4258
20°	4210	4210	4226
25°	4163	4154	4158
30°	4065	4044	4025
35°	3905	3894	3879
40°	3679	3612	3596
45°	3365	3273	3213
50°	2975	2916	2802
55°	2646	2466	2371
60°	2304	1973	2115
65°	1989	1530	1871
70°	1815	1251	1810
75°	1829	1349	1923
80°	1905	1757	2028
85°	1985	2089	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	4.1
10°-20°	859.5	11.9
20°-30°	1286.5	17.8
30°-40°	1470.1	20.3
40°-50°	1329.1	18.4
50°-60°	956.2	13.2
60°-70°	554.4	7.7
70°-80°	328.8	4.5
80°-90°	145.6	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°	2445.7	33.8
0°-40°	3915.8	54.2
0°-60°	6201.2	85.8
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°	3159	3159	3159	3159	3159	
5°	3158	3154	3151	3147	3157	300
15°	3043	3049	3049	3045	3057	859
25°	2804	2801	2798	2793	2801	1289
35°	2378	2366	2371	2342	2362	1482
45°	1769	1738	1720	1704	1688	1359
55°	1128	1106	1051	1024	1011	1009
65°	625	555	480	537	588	631
75°	352	294	259	320	370	372
85°	129	139	135	156	146	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3159.3	3159.3	3159.3	3159.3	3159.3
2.5°	3168.3	3157.0	3162.6	3159.3	3158.1
5°	3158.1	3153.6	3151.4	3146.9	3157.0
7.5°	3137.8	3134.4	3135.6	3136.7	3143.5
10°	3117.5	3111.9	3113.0	3115.3	3118.7
12.5°	3085.9	3082.6	3083.7	3085.9	3093.8
15°	3043.1	3048.7	3048.7	3045.3	3056.6
17.5°	3000.2	2999.1	3004.7	2994.6	3010.4
20°	2940.4	2941.6	2940.4	2941.6	2951.7
22.5°	2872.8	2878.4	2875.0	2875.0	2886.3
25°	2804.0	2800.6	2798.3	2792.7	2800.6
27.5°	2721.6	2714.9	2709.2	2697.9	2703.6
30°	2616.7	2617.9	2603.2	2593.1	2590.8
32.5°	2499.4	2499.4	2485.9	2478.0	2484.8
35°	2377.6	2366.3	2370.9	2341.5	2361.8
37.5°	2245.7	2227.6	2217.5	2207.3	2214.1
40°	2094.5	2070.8	2056.2	2035.9	2047.1
42.5°	1935.5	1906.2	1888.1	1873.4	1878.0
45°	1768.6	1738.1	1720.1	1704.3	1688.5
47.5°	1592.6	1573.4	1564.4	1544.1	1526.1
50°	1421.2	1414.4	1393.0	1376.0	1338.8
52.5°	1264.4	1258.7	1224.9	1196.7	1149.3
55°	1127.9	1106.5	1051.2	1024.1	1010.6
57.5°	989.2	954.2	887.7	884.3	893.3
60°	856.1	813.2	733.1	751.2	786.1
62.5°	735.4	671.1	594.4	637.3	679.0
65°	624.9	554.9	480.5	536.9	587.6
67.5°	533.5	463.6	386.9	462.4	521.1
70°	461.3	390.3	318.1	404.9	460.2
72.5°	401.5	337.2	277.5	359.8	417.3
75°	351.9	294.4	259.4	320.3	370.0
77.5°	302.3	256.0	248.1	285.4	315.8
80°	245.9	224.5	226.7	250.4	261.7
82.5°	183.8	185.0	190.6	209.8	205.3
85°	128.6	138.7	135.3	155.7	145.5
87.5°	71.1	77.8	73.3	89.1	80.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)