

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: P293832

Luminaire Tested: **24GR-LD5-85-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293832
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-LD5-85-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7059.0 lumens
Efficiency: N/A
Efficacy: 111.0 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

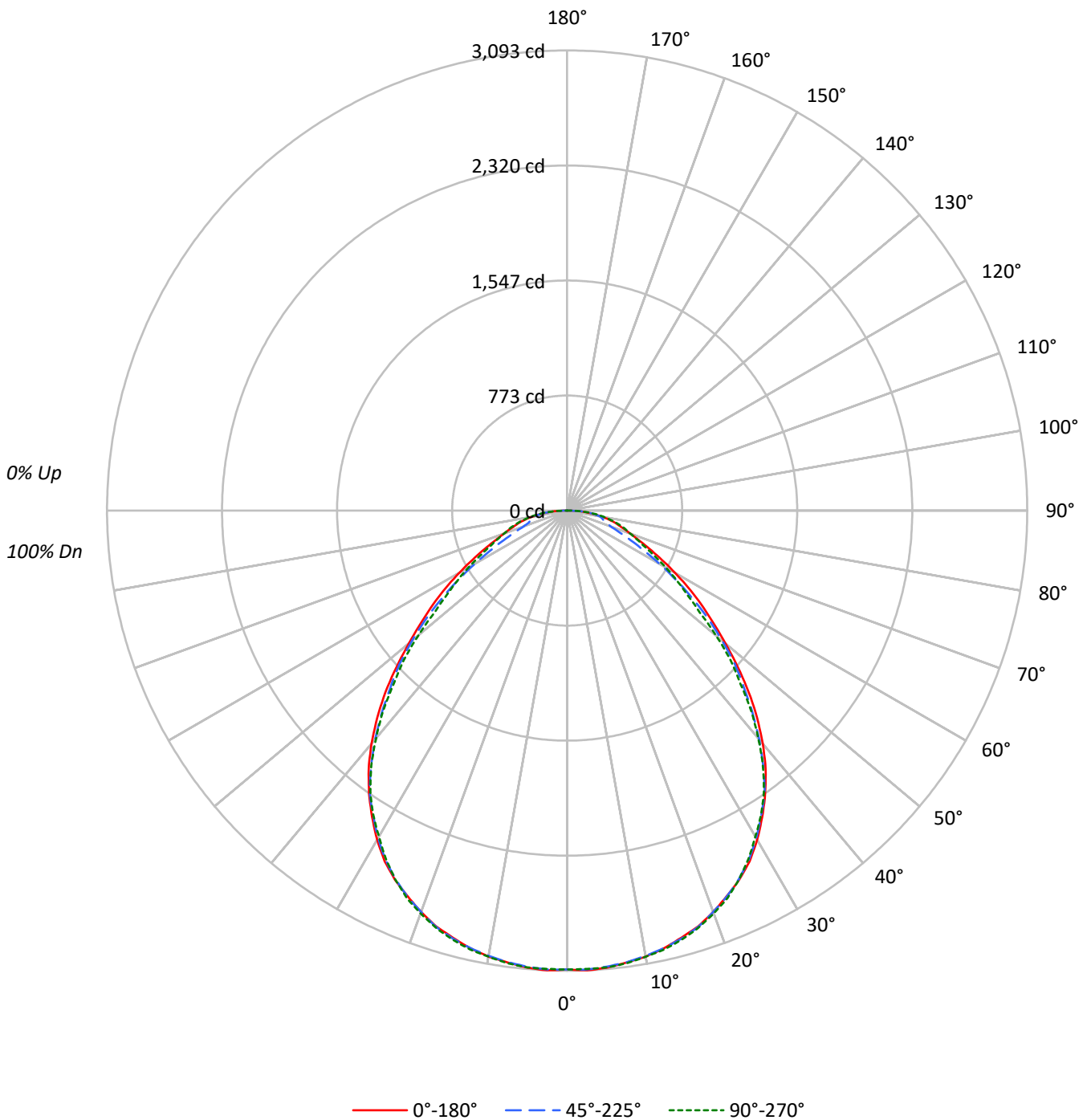
Input Watts (W): 63.588657
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4150	4150	4150
5°	4165	4156	4163
10°	4159	4153	4160
15°	4139	4146	4157
20°	4111	4111	4126
25°	4064	4056	4059
30°	3969	3949	3930
35°	3813	3802	3788
40°	3592	3526	3511
45°	3286	3196	3137
50°	2904	2847	2736
55°	2583	2407	2315
60°	2249	1926	2066
65°	1942	1493	1826
70°	1772	1221	1768
75°	1786	1317	1878
80°	1860	1715	1980
85°	1937	2039	2194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	4.1
10°-20°	839.2	11.9
20°-30°	1256.1	17.8
30°-40°	1435.3	20.3
40°-50°	1297.7	18.4
50°-60°	933.6	13.2
60°-70°	541.2	7.7
70°-80°	321.1	4.5
80°-90°	142.2	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°	2387.9	33.8
0°-40°	3823.2	54.2
0°-60°	6054.5	85.8
0°-90°	7059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3084	3084	3084	3084	3084	
5°	3083	3079	3077	3072	3082	293
15°	2971	2977	2977	2973	2984	839
25°	2738	2734	2732	2727	2734	1259
35°	2321	2310	2315	2286	2306	1447
45°	1727	1697	1679	1664	1648	1327
55°	1101	1080	1026	1000	987	985
65°	610	542	469	524	574	616
75°	344	287	253	313	361	363
85°	126	136	132	152	142	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3084.5	3084.5	3084.5	3084.5	3084.5
2.5°	3093.3	3082.3	3087.8	3084.5	3083.4
5°	3083.4	3079.0	3076.8	3072.4	3082.3
7.5°	3063.6	3060.3	3061.4	3062.5	3069.1
10°	3043.8	3038.3	3039.4	3041.6	3044.9
12.5°	3013.0	3009.7	3010.8	3013.0	3020.7
15°	2971.1	2976.6	2976.6	2973.3	2984.3
17.5°	2929.3	2928.2	2933.7	2923.8	2939.2
20°	2870.9	2872.0	2870.9	2872.0	2881.9
22.5°	2804.8	2810.3	2807.0	2807.0	2818.0
25°	2737.7	2734.3	2732.1	2726.6	2734.3
27.5°	2657.3	2650.7	2645.1	2634.1	2639.6
30°	2554.8	2555.9	2541.6	2531.7	2529.5
32.5°	2440.3	2440.3	2427.1	2419.4	2426.0
35°	2321.4	2310.4	2314.8	2286.1	2306.0
37.5°	2192.5	2174.9	2165.0	2155.1	2161.7
40°	2045.0	2021.9	2007.5	1987.7	1998.7
42.5°	1889.7	1861.1	1843.5	1829.1	1833.5
45°	1726.7	1697.0	1679.4	1664.0	1648.5
47.5°	1554.9	1536.2	1527.4	1507.6	1490.0
50°	1387.5	1380.9	1360.0	1343.5	1307.2
52.5°	1234.5	1229.0	1195.9	1168.4	1122.2
55°	1101.2	1080.3	1026.3	999.9	986.7
57.5°	965.8	931.6	866.7	863.4	872.2
60°	835.8	794.0	715.8	733.4	767.6
62.5°	718.0	655.2	580.3	622.2	662.9
65°	610.1	541.8	469.1	524.2	573.7
67.5°	520.9	452.6	377.7	451.5	508.8
70°	450.4	381.0	310.5	395.3	449.3
72.5°	392.0	329.3	270.9	351.3	407.5
75°	343.6	287.4	253.3	312.7	361.2
77.5°	295.1	250.0	242.3	278.6	308.3
80°	240.1	219.1	221.3	244.5	255.5
82.5°	179.5	180.6	186.1	204.8	200.4
85°	125.5	135.5	132.1	152.0	142.1
87.5°	69.4	76.0	71.6	87.0	78.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)