

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: P292430

Luminaire Tested: **22GR-LD5-28-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

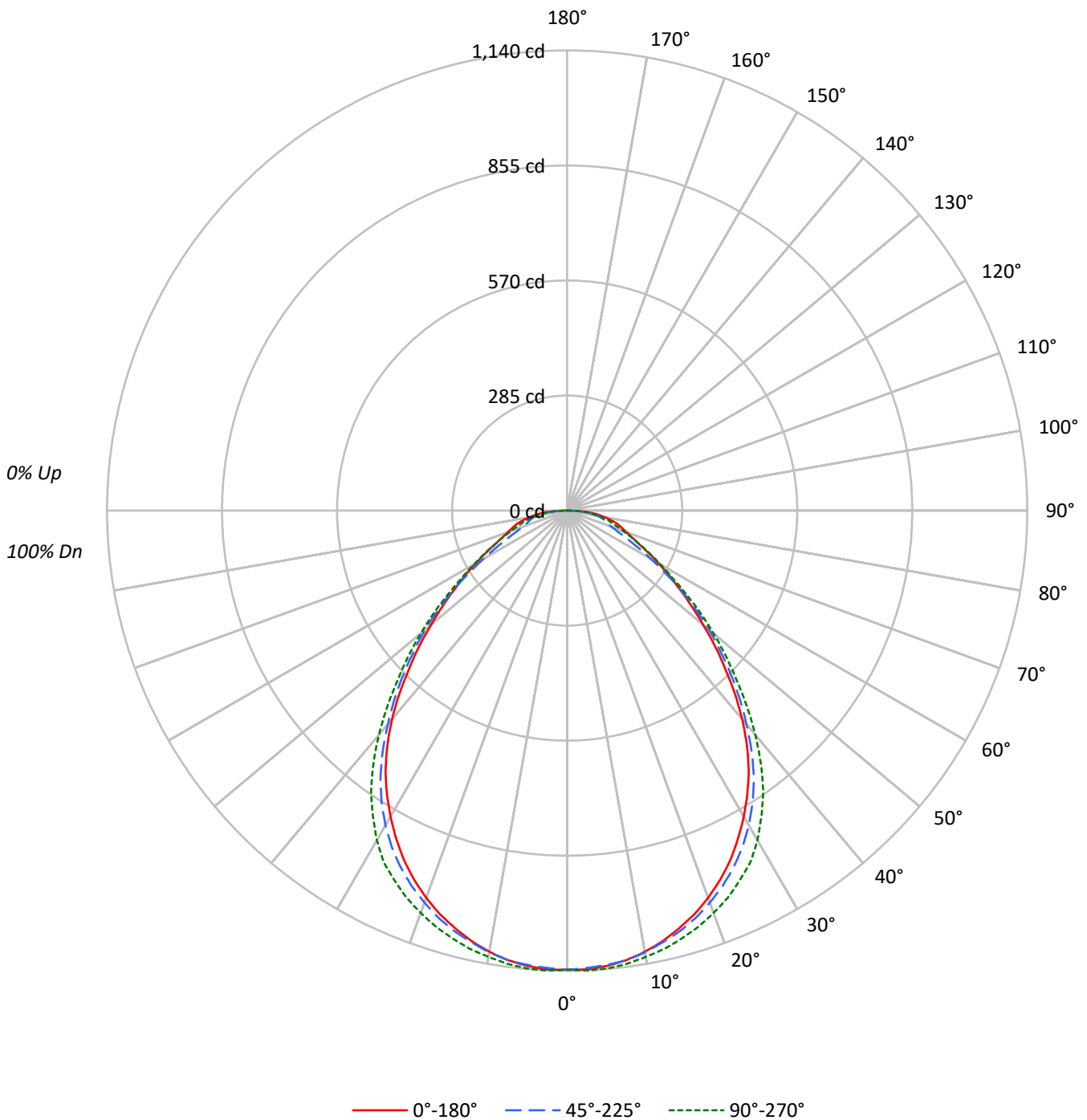
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3061	3061	3061
5°	3059	3051	3076
10°	3033	3036	3068
15°	2985	3006	3057
20°	2923	2961	3037
25°	2838	2896	3002
30°	2719	2797	2930
35°	2576	2648	2782
40°	2369	2428	2549
45°	2105	2181	2260
50°	1838	1922	1980
55°	1598	1620	1679
60°	1406	1288	1434
65°	1249	1030	1257
70°	1227	914	1159
75°	1340	1005	1184
80°	1471	1195	1266
85°	1760	1386	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	4.4
10°-20°	304.9	12.4
20°-30°	450.1	18.2
30°-40°	503.7	20.4
40°-50°	442.3	17.9
50°-60°	313.0	12.7
60°-70°	182.2	7.4
70°-80°	113.5	4.6
80°-90°	50.8	2.1
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°	862.5	34.9
0°-40°	1366.2	55.4
0°-60°	2121.5	86.0
0°-90°	2468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1132	1130	1130	1135	1139	107
15°	1072	1074	1079	1090	1097	302
25°	956	960	975	998	1011	439
35°	784	788	806	830	847	488
45°	553	559	573	587	594	428
55°	341	348	345	352	358	308
65°	196	181	162	176	197	199
75°	129	111	97	99	114	135
85°	57	59	45	44	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.6	1137.6	1137.6	1137.6	<i>1137.6</i>
2.5°	<i>1137.6</i>	<i>1135.3</i>	<i>1134.2</i>	<i>1138.2</i>	<i>1140.5</i>
5°	1132.4	1129.6	1129.6	1135.3	<i>1138.8</i>
7.5°	1123.2	1120.4	1123.8	1129.0	<i>1132.4</i>
10°	1110.0	1108.9	1111.2	1118.1	<i>1122.7</i>
12.5°	1092.7	1093.3	1095.6	1106.6	<i>1112.3</i>
15°	1071.5	1073.8	1078.9	1090.4	<i>1097.3</i>
17.5°	1048.4	1050.2	1058.2	1071.5	<i>1081.2</i>
20°	1020.8	1024.3	1034.0	1050.7	<i>1060.5</i>
22.5°	990.3	994.3	1006.4	1026.6	<i>1038.7</i>
25°	955.8	959.8	975.4	998.4	<i>1011.0</i>
27.5°	916.7	923.0	940.3	965.6	<i>982.8</i>
30°	875.2	880.4	900.0	928.7	<i>943.1</i>
32.5°	830.9	837.3	855.7	883.3	<i>895.9</i>
35°	784.3	787.8	806.2	830.3	<i>847.0</i>
37.5°	731.4	733.1	750.4	772.8	<i>787.8</i>
40°	674.4	675.6	691.1	712.4	<i>725.6</i>
42.5°	615.1	615.7	632.4	648.5	<i>660.0</i>
45°	553.0	559.3	573.1	586.9	<i>593.8</i>
47.5°	497.2	501.8	514.4	526.5	<i>532.8</i>
50°	439.1	450.6	459.2	465.5	<i>473.0</i>
52.5°	389.0	398.8	401.1	408.6	<i>414.9</i>
55°	340.7	347.6	345.3	351.6	<i>357.9</i>
57.5°	299.8	296.3	288.9	299.8	<i>307.9</i>
60°	261.2	252.0	239.4	254.3	<i>266.4</i>
62.5°	226.7	211.8	196.2	211.2	<i>231.3</i>
65°	196.2	180.7	161.7	176.1	<i>197.4</i>
67.5°	173.2	157.1	134.7	149.0	<i>170.3</i>
70°	155.9	139.3	116.2	128.3	<i>147.3</i>
72.5°	142.1	124.3	104.2	112.2	<i>128.3</i>
75°	128.9	111.1	96.7	99.0	<i>113.9</i>
77.5°	113.4	100.1	88.6	87.5	<i>99.0</i>
80°	94.9	90.9	77.1	75.4	<i>81.7</i>
82.5°	78.3	76.5	63.3	61.6	<i>63.9</i>
85°	57.0	59.3	44.9	43.7	<i>46.0</i>
87.5°	29.9	32.8	23.6	24.7	<i>25.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)