

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: P476110

Luminaire Tested: **22GR-LD5-24-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476110
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2491.6 lumens
Efficiency: N/A
Efficacy: 139.2 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

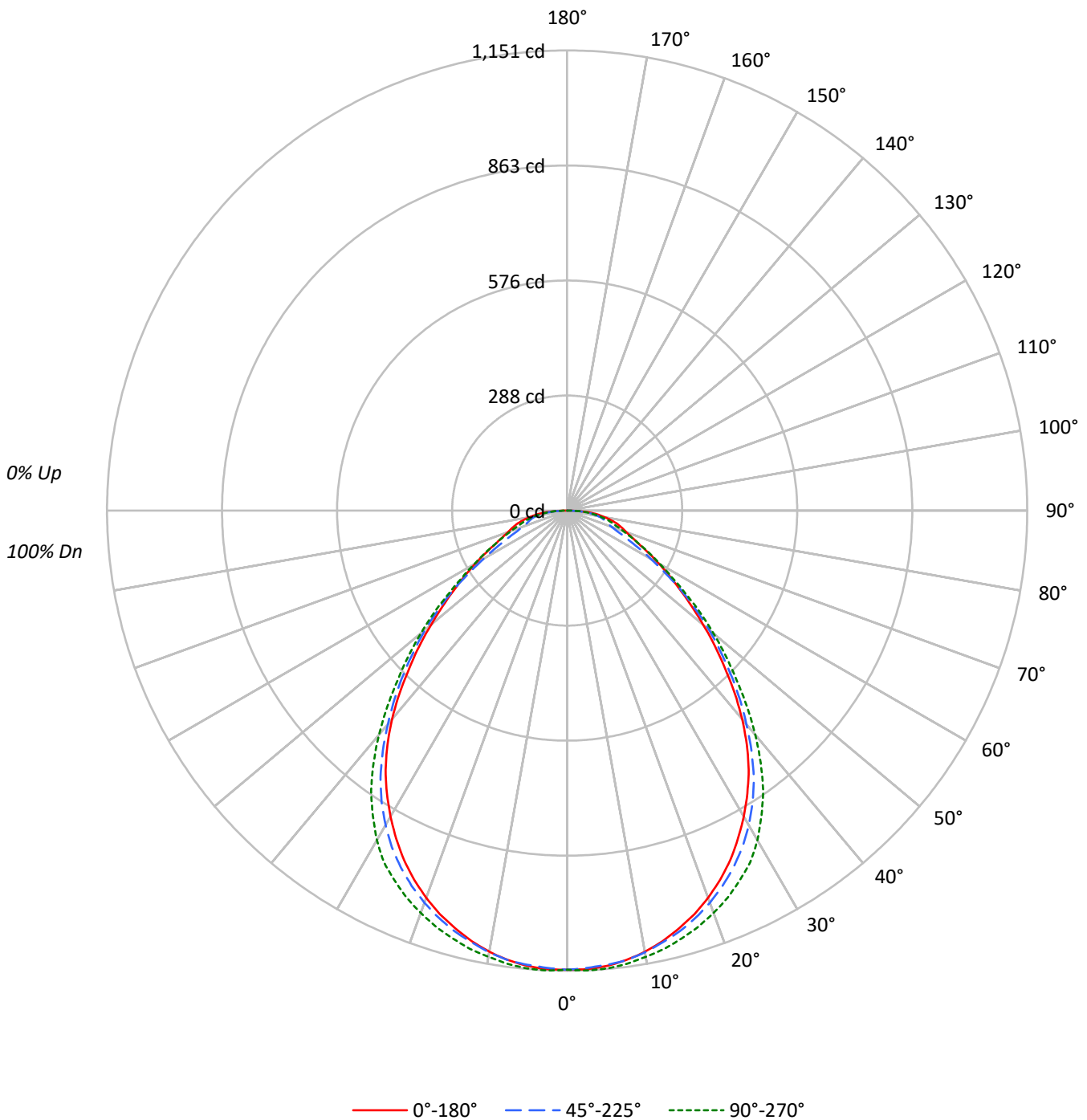
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3091	3091	3091
5°	3088	3081	3106
10°	3062	3065	3097
15°	3013	3035	3086
20°	2951	2990	3066
25°	2865	2923	3031
30°	2746	2823	2959
35°	2601	2674	2809
40°	2392	2451	2573
45°	2125	2202	2281
50°	1856	1941	1999
55°	1613	1635	1696
60°	1420	1300	1448
65°	1261	1039	1268
70°	1238	923	1171
75°	1354	1015	1196
80°	1486	1206	1278
85°	1775	1399	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	4.4
10°-20°	307.8	12.4
20°-30°	454.4	18.2
30°-40°	508.5	20.4
40°-50°	446.5	17.9
50°-60°	316.0	12.7
60°-70°	183.9	7.4
70°-80°	114.6	4.6
80°-90°	51.3	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°	870.8	34.9
0°-40°	1379.3	55.4
0°-60°	2141.8	86.0
0°-90°	2491.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1143	1140	1140	1146	1150	108
15°	1082	1084	1089	1101	1108	305
25°	965	969	985	1008	1021	443
35°	792	795	814	838	855	492
45°	558	565	579	592	600	432
55°	344	351	349	355	361	311
65°	198	182	163	178	199	201
75°	130	112	98	100	115	136
85°	58	60	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°	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1148.5	1146.2	1145.0	1149.1	1151.4
5°	1143.3	1140.4	1140.4	1146.2	1149.7
7.5°	1134.0	1131.1	1134.5	1139.7	1143.3
10°	1120.7	1119.4	1121.8	1128.8	1133.4
12.5°	1103.2	1103.8	1106.1	1117.1	1123.0
15°	1081.6	1083.9	1089.3	1100.8	1107.8
17.5°	1058.4	1060.3	1068.3	1081.6	1091.6
20°	1030.6	1034.0	1044.0	1060.7	1070.7
22.5°	999.7	1003.9	1016.0	1036.4	1048.6
25°	965.0	969.0	984.6	1007.9	1020.8
27.5°	925.5	931.8	949.3	974.8	992.2
30°	883.7	888.9	908.6	937.6	952.2
32.5°	838.9	845.2	863.8	891.7	904.6
35°	791.7	795.3	813.9	838.3	855.1
37.5°	738.4	740.1	757.5	780.2	795.3
40°	680.9	682.0	697.7	719.2	732.6
42.5°	621.0	621.6	638.5	654.6	666.3
45°	558.3	564.7	578.6	592.5	599.5
47.5°	501.9	506.6	519.4	531.5	538.0
50°	443.3	454.8	463.6	470.0	477.6
52.5°	392.7	402.6	404.9	412.4	418.9
55°	343.8	350.9	348.6	354.9	361.4
57.5°	302.6	299.1	291.6	302.6	310.8
60°	263.8	254.4	241.6	256.8	269.0
62.5°	228.9	213.8	198.1	213.2	233.5
65°	198.1	182.4	163.2	177.8	199.2
67.5°	174.9	158.6	135.9	150.5	172.0
70°	157.4	140.6	117.3	129.6	148.8
72.5°	143.6	125.4	105.1	113.3	129.6
75°	130.2	112.1	97.6	99.9	115.0
77.5°	114.5	101.1	89.5	88.2	99.9
80°	95.9	91.8	77.8	76.1	82.5
82.5°	79.0	77.3	63.9	62.1	64.6
85°	57.5	59.8	45.3	44.1	46.4
87.5°	30.3	33.0	23.8	25.1	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)