

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: P476098

Luminaire Tested: **22GR-LD5-24-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476098
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2489.1 lumens
Efficiency: N/A
Efficacy: 139.1 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

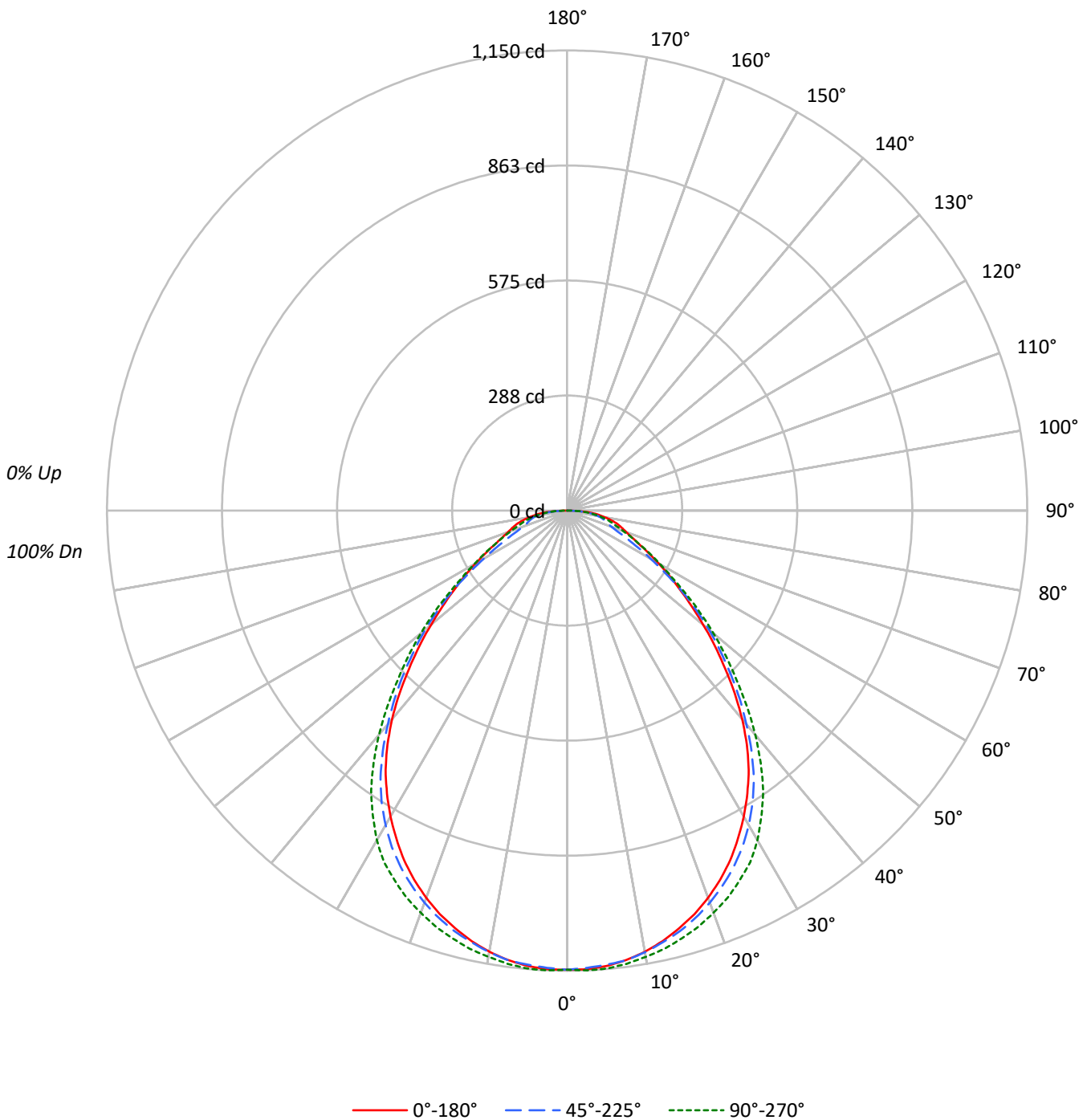
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3088	3088	3088
5°	3085	3077	3103
10°	3059	3062	3094
15°	3010	3032	3083
20°	2948	2987	3063
25°	2862	2921	3028
30°	2743	2820	2956
35°	2598	2671	2806
40°	2390	2448	2571
45°	2122	2200	2279
50°	1854	1939	1997
55°	1612	1634	1694
60°	1418	1299	1446
65°	1260	1039	1267
70°	1237	922	1169
75°	1353	1014	1195
80°	1485	1204	1278
85°	1772	1399	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	4.4
10°-20°	307.5	12.4
20°-30°	454.0	18.2
30°-40°	508.0	20.4
40°-50°	446.1	17.9
50°-60°	315.7	12.7
60°-70°	183.7	7.4
70°-80°	114.5	4.6
80°-90°	51.2	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°	869.9	34.9
0°-40°	1377.9	55.4
0°-60°	2139.7	86.0
0°-90°	2489.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1142	1139	1139	1145	1149	108
15°	1081	1083	1088	1100	1107	304
25°	964	968	984	1007	1020	443
35°	791	794	813	838	854	492
45°	558	564	578	592	599	431
55°	344	351	348	355	361	311
65°	198	182	163	178	199	201
75°	130	112	98	100	115	136
85°	57	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°	1147.4	1147.4	1147.4	1147.4	1147.4
2.5°	1147.4	1145.1	1143.8	1148.0	1150.3
5°	1142.2	1139.2	1139.2	1145.1	1148.6
7.5°	1132.9	1130.0	1133.4	1138.6	1142.2
10°	1119.6	1118.3	1120.7	1127.7	1132.3
12.5°	1102.1	1102.7	1105.0	1116.0	1121.9
15°	1080.6	1082.9	1088.3	1099.8	1106.7
17.5°	1057.4	1059.2	1067.2	1080.6	1090.6
20°	1029.6	1033.0	1043.0	1059.7	1069.7
22.5°	998.7	1002.9	1015.0	1035.4	1047.6
25°	964.0	968.0	983.7	1006.9	1019.8
27.5°	924.6	930.9	948.4	973.9	991.2
30°	882.8	888.0	907.7	936.7	951.3
32.5°	838.1	844.4	863.0	890.8	903.7
35°	791.0	794.5	813.1	837.5	854.2
37.5°	737.7	739.4	756.7	779.5	794.5
40°	680.3	681.3	697.0	718.5	731.8
42.5°	620.4	621.0	637.9	654.0	665.7
45°	557.7	564.2	578.0	592.0	598.9
47.5°	501.4	506.1	518.9	531.0	537.4
50°	442.9	454.4	463.1	469.6	477.1
52.5°	392.3	402.2	404.5	412.0	418.4
55°	343.5	350.6	348.3	354.6	361.0
57.5°	302.4	298.8	291.3	302.4	310.5
60°	263.5	254.1	241.4	256.6	268.7
62.5°	228.6	213.6	197.9	213.0	233.3
65°	197.9	182.3	163.1	177.7	199.0
67.5°	174.7	158.5	135.7	150.3	171.8
70°	157.2	140.5	117.2	129.4	148.6
72.5°	143.4	125.3	105.0	113.2	129.4
75°	130.1	111.9	97.5	99.8	114.9
77.5°	114.4	101.0	89.4	88.1	99.8
80°	95.8	91.7	77.7	76.0	82.5
82.5°	78.9	77.2	63.9	62.0	64.5
85°	57.4	59.7	45.3	44.1	46.4
87.5°	30.3	33.0	23.8	25.0	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)