

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: P476097

Luminaire Tested: **22GR-LD5-20-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476097
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-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: 2092.2 lumens
Efficiency: N/A
Efficacy: 138.6 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

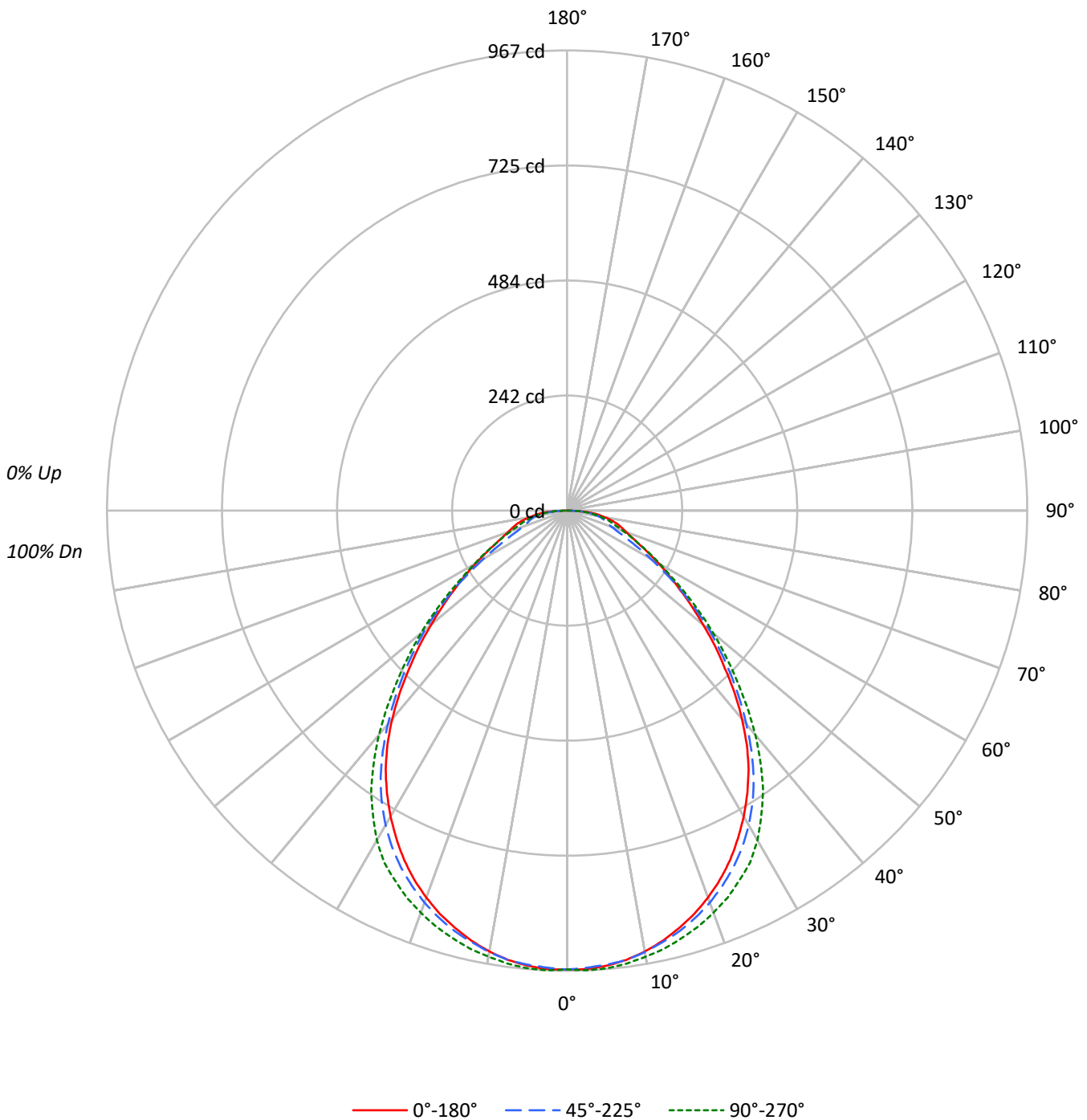
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2595	2595	2595
5°	2593	2587	2608
10°	2571	2574	2601
15°	2530	2548	2591
20°	2478	2510	2575
25°	2406	2455	2545
30°	2306	2371	2485
35°	2184	2245	2359
40°	2009	2058	2161
45°	1784	1849	1916
50°	1558	1630	1679
55°	1354	1373	1423
60°	1192	1092	1216
65°	1060	873	1065
70°	1040	775	983
75°	1136	853	1003
80°	1247	1012	1074
85°	1491	1176	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	4.4
10°-20°	258.5	12.4
20°-30°	381.6	18.2
30°-40°	427.0	20.4
40°-50°	375.0	17.9
50°-60°	265.3	12.7
60°-70°	154.4	7.4
70°-80°	96.2	4.6
80°-90°	43.0	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°	731.2	34.9
0°-40°	1158.2	55.4
0°-60°	1798.4	86.0
0°-90°	2092.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	960	958	958	962	965	91
15°	908	910	915	924	930	256
25°	810	814	827	846	857	372
35°	665	668	683	704	718	414
45°	469	474	486	498	503	363
55°	289	295	293	298	303	261
65°	166	153	137	149	167	169
75°	109	94	82	84	96	114
85°	48	50	38	37	39	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.4	964.4	964.4	964.4	964.4
2.5°	964.4	962.5	961.4	964.9	966.8
5°	960.0	957.6	957.6	962.5	965.4
7.5°	952.3	949.8	952.7	957.0	960.0
10°	941.0	940.0	941.9	947.9	951.7
12.5°	926.3	926.8	928.8	938.1	943.0
15°	908.3	910.2	914.7	924.4	930.2
17.5°	888.8	890.3	897.0	908.3	916.6
20°	865.4	868.2	876.6	890.7	899.1
22.5°	839.5	842.9	853.1	870.3	880.5
25°	810.3	813.6	826.8	846.3	857.1
27.5°	777.1	782.4	797.1	818.5	833.1
30°	742.0	746.4	762.9	787.3	799.6
32.5°	704.5	709.7	725.4	748.7	759.6
35°	664.8	667.8	683.4	703.9	718.0
37.5°	620.0	621.5	636.0	655.1	667.8
40°	571.8	572.7	585.8	603.9	615.1
42.5°	521.4	522.0	536.1	549.7	559.5
45°	468.8	474.2	485.8	497.6	503.4
47.5°	421.4	425.4	436.1	446.3	451.7
50°	372.2	381.9	389.3	394.7	401.0
52.5°	329.8	338.0	340.0	346.3	351.7
55°	288.7	294.7	292.7	298.0	303.4
57.5°	254.1	251.2	244.8	254.1	261.0
60°	221.5	213.6	202.9	215.7	225.9
62.5°	192.2	179.5	166.4	179.0	196.1
65°	166.4	153.2	137.1	149.3	167.3
67.5°	146.9	133.2	114.1	126.4	144.4
70°	132.2	118.1	98.5	108.8	124.9
72.5°	120.5	105.3	88.3	95.1	108.8
75°	109.3	94.1	82.0	83.9	96.5
77.5°	96.2	84.9	75.1	74.1	83.9
80°	80.5	77.1	65.3	63.9	69.3
82.5°	66.3	64.9	53.7	52.1	54.2
85°	48.3	50.2	38.1	37.0	39.0
87.5°	25.4	27.7	20.0	21.0	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)