

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: P234138

Luminaire Tested: **22GR-LD5-90-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-A125-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7605.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

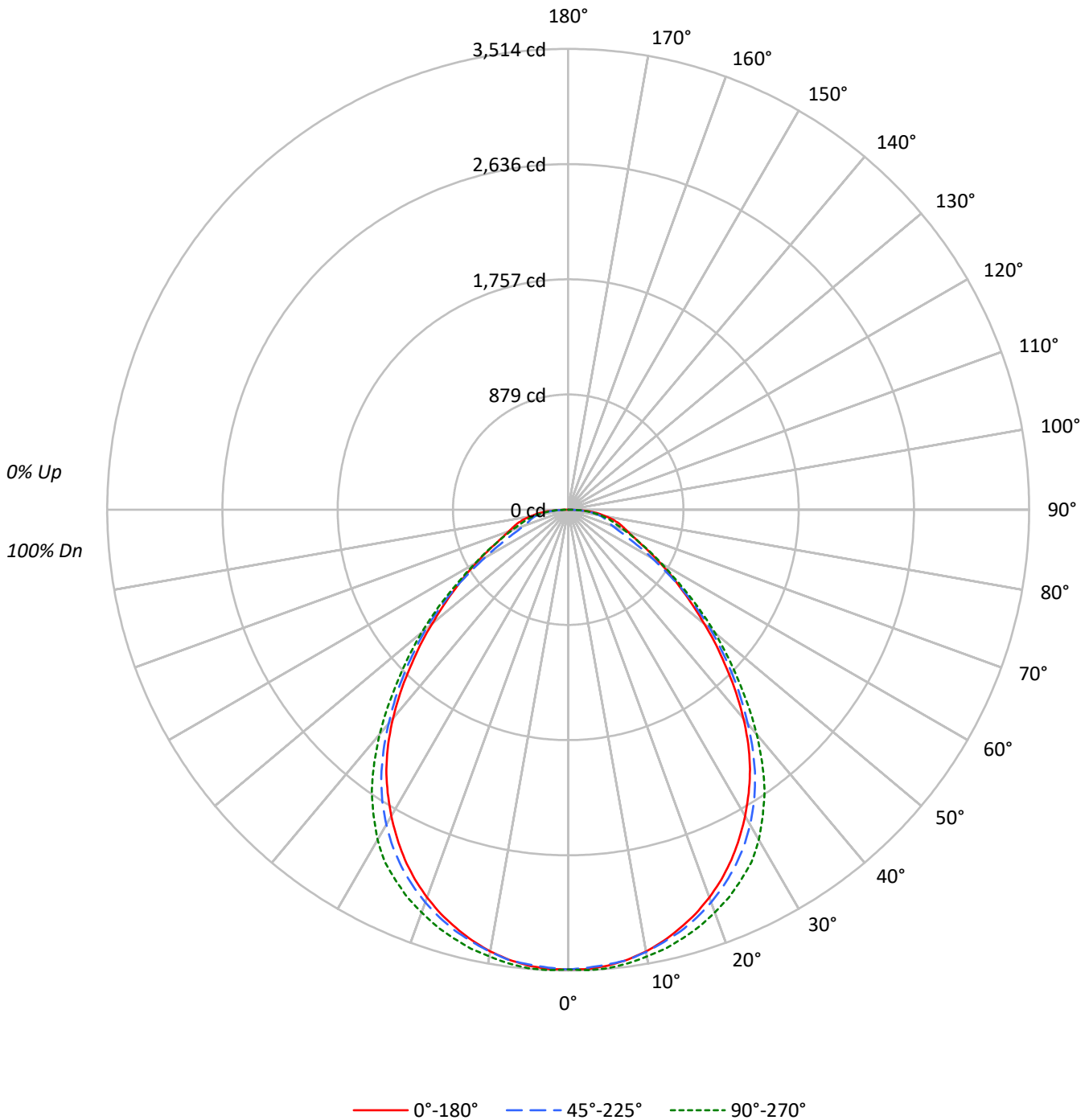
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234138

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P234138

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L935-CD1-U

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	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					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°	11226	11226	11226
5°	11218	11189	11281
10°	11123	11134	11250
15°	10946	11023	11211
20°	10720	10859	11137
25°	10407	10620	11008
30°	9973	10255	10747
35°	9449	9712	10204
40°	8688	8902	9347
45°	7717	7998	8288
50°	6740	7050	7262
55°	5861	5940	6158
60°	5156	4724	5258
65°	4581	3776	4609
70°	4499	3354	4250
75°	4915	3686	4343
80°	5396	4382	4644
85°	6449	5082	5214



TEST NUMBER: P234138

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	4.4
10°-20°	939.5	12.4
20°-30°	1387.0	18.2
30°-40°	1552.0	20.4
40°-50°	1362.9	17.9
50°-60°	964.4	12.7
60°-70°	561.4	7.4
70°-80°	349.9	4.6
80°-90°	156.5	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°	2657.8	34.9
0°-40°	4209.9	55.4
0°-60°	6537.2	86.0
0°-90°	7605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3506	3506	3506	3506	3506	
5°	3490	3481	3481	3498	3509	331
15°	3302	3309	3325	3360	3381	930
25°	2945	2958	3006	3076	3115	1353
35°	2417	2427	2484	2559	2610	1503
45°	1704	1724	1766	1809	1830	1318
55°	1050	1071	1064	1083	1103	949
65°	605	557	498	543	608	613
75°	397	342	298	305	351	415
85°	176	183	138	135	142	178
90°	0	0	0	0	0	



TEST NUMBER: P234138

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3505.5	3505.5	3505.5	3505.5	3505.5
2.5°	3505.5	3498.4	3494.9	3507.3	3514.4
5°	3489.5	3480.7	3480.7	3498.4	3509.1
7.5°	3461.2	3452.3	3463.0	3478.9	3489.5
10°	3420.4	3416.8	3424.0	3445.2	3459.4
12.5°	3367.2	3369.0	3376.0	3409.8	3427.5
15°	3301.6	3308.7	3324.6	3360.1	3381.4
17.5°	3230.7	3236.0	3260.8	3301.6	3331.7
20°	3145.6	3156.2	3186.3	3237.7	3267.9
22.5°	3051.6	3064.0	3101.2	3163.3	3200.5
25°	2945.2	2957.6	3005.5	3076.4	3115.4
27.5°	2824.6	2844.1	2897.3	2975.3	3028.5
30°	2697.0	2712.9	2773.2	2861.9	2906.2
32.5°	2560.5	2579.9	2636.7	2721.8	2760.8
35°	2416.8	2427.4	2484.2	2558.7	2610.1
37.5°	2253.7	2259.0	2312.2	2381.4	2427.4
40°	2078.2	2081.6	2129.5	2195.1	2235.9
42.5°	1895.5	1897.3	1948.7	1998.4	2033.8
45°	1704.0	1723.5	1766.0	1808.6	1829.9
47.5°	1532.0	1546.1	1585.2	1622.4	1641.9
50°	1352.9	1388.4	1415.0	1434.5	1457.5
52.5°	1198.7	1228.8	1235.9	1258.9	1278.4
55°	1049.7	1071.0	1063.9	1083.4	1102.9
57.5°	923.8	913.2	890.1	923.8	948.6
60°	805.0	776.6	737.6	783.7	820.9
62.5°	698.6	652.5	604.6	650.8	712.8
65°	604.6	556.8	498.3	542.6	608.2
67.5°	533.7	484.1	414.9	459.3	524.9
70°	480.5	429.1	358.2	395.4	453.9
72.5°	438.0	383.0	321.0	345.8	395.4
75°	397.2	342.2	297.9	305.0	351.0
77.5°	349.3	308.6	273.1	269.5	305.0
80°	292.6	280.2	237.6	232.3	251.8
82.5°	241.1	235.8	195.1	189.7	196.9
85°	175.5	182.7	138.3	134.7	141.9
87.5°	92.2	101.1	72.7	76.2	78.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)