

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: P225712

Luminaire Tested: **22GR-LD5-20-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225712
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-LD5-20-A125-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1658.9 lumens
Efficiency: N/A
Efficacy: 102.8 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

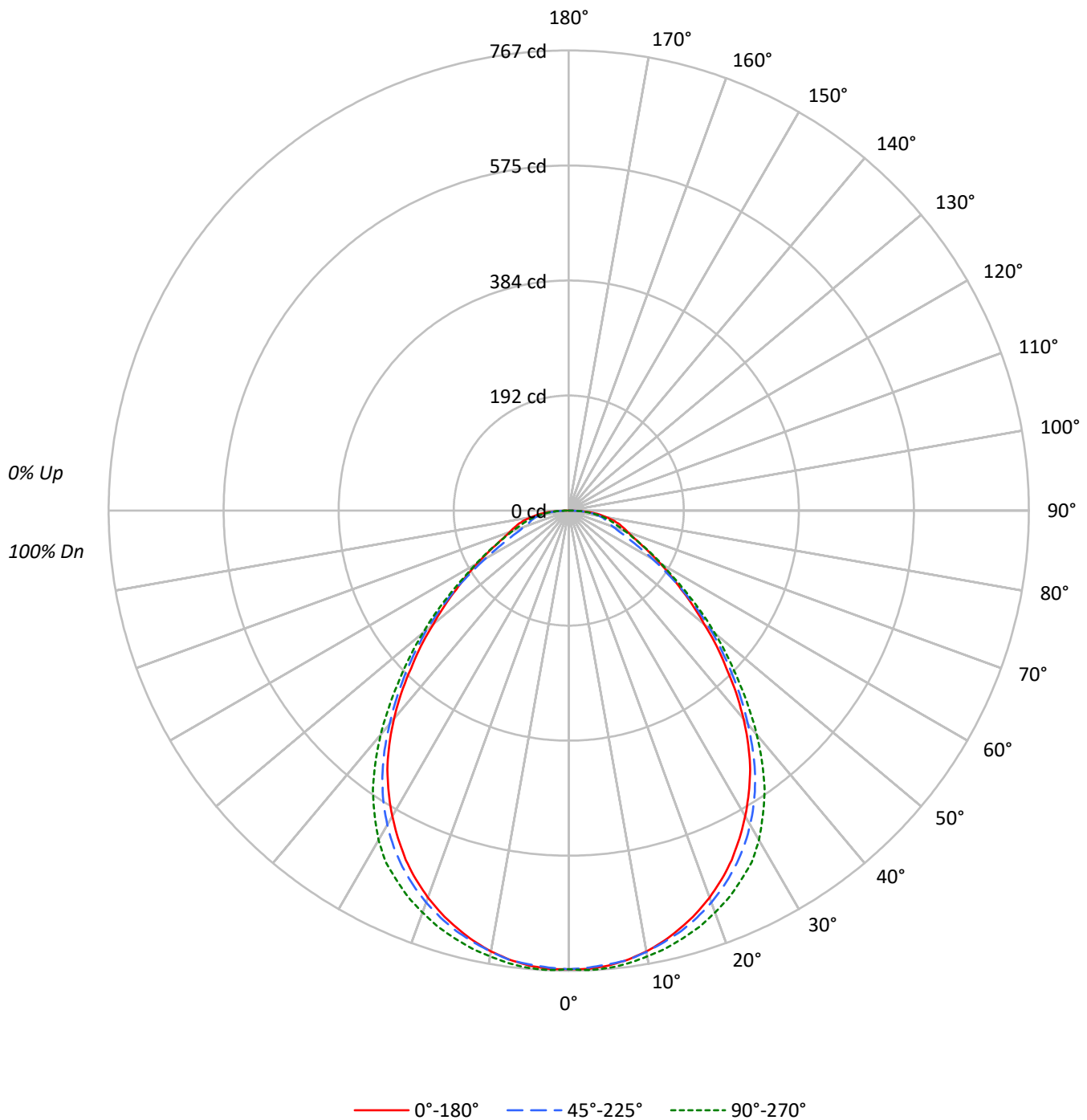
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	2449	2449	2449
5°	2447	2441	2461
10°	2426	2429	2454
15°	2388	2404	2445
20°	2339	2369	2429
25°	2270	2317	2401
30°	2175	2237	2344
35°	2061	2119	2226
40°	1895	1942	2039
45°	1683	1745	1808
50°	1470	1538	1584
55°	1278	1296	1343
60°	1125	1031	1147
65°	1000	823	1006
70°	981	731	927
75°	1073	803	948
80°	1177	955	1012
85°	1407	1110	1135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	4.4
10°-20°	204.9	12.4
20°-30°	302.6	18.2
30°-40°	338.5	20.4
40°-50°	297.3	17.9
50°-60°	210.4	12.7
60°-70°	122.4	7.4
70°-80°	76.3	4.6
80°-90°	34.2	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°	579.8	34.9
0°-40°	918.3	55.4
0°-60°	1426.0	86.0
0°-90°	1658.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	761	759	759	763	765	72
15°	720	722	725	733	738	203
25°	642	645	656	671	680	295
35°	527	530	542	558	569	328
45°	372	376	385	394	399	287
55°	229	234	232	236	241	207
65°	132	121	109	118	133	134
75°	87	75	65	66	77	90
85°	38	40	30	29	31	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.6	764.6	764.6	764.6	764.6
2.5°	764.6	763.1	762.4	765.1	766.6
5°	761.2	759.2	759.2	763.1	765.4
7.5°	755.0	753.1	755.4	758.8	761.2
10°	746.1	745.3	746.9	751.5	754.6
12.5°	734.5	734.9	736.4	743.7	747.6
15°	720.2	721.7	725.2	732.9	737.6
17.5°	704.7	705.9	711.3	720.2	726.8
20°	686.2	688.5	695.0	706.3	712.8
22.5°	665.7	668.4	676.5	690.0	698.1
25°	642.5	645.2	655.6	671.1	679.5
27.5°	616.1	620.4	632.0	649.0	660.6
30°	588.3	591.8	604.9	624.3	633.9
32.5°	558.5	562.8	575.1	593.7	602.2
35°	527.2	529.5	541.9	558.1	569.3
37.5°	491.6	492.7	504.4	519.5	529.5
40°	453.3	454.0	464.5	478.8	487.7
42.5°	413.4	413.9	425.1	435.9	443.6
45°	371.7	376.0	385.2	394.5	399.2
47.5°	334.2	337.3	345.8	353.9	358.2
50°	295.1	302.8	308.6	312.9	317.9
52.5°	261.5	268.1	269.6	274.6	278.9
55°	228.9	233.6	232.1	236.3	240.6
57.5°	201.5	199.2	194.2	201.5	206.9
60°	175.6	169.4	160.9	171.0	179.1
62.5°	152.4	142.4	131.9	141.9	155.5
65°	131.9	121.4	108.6	118.3	132.7
67.5°	116.4	105.6	90.5	100.2	114.5
70°	104.8	93.6	78.1	86.3	99.0
72.5°	95.5	83.6	70.0	75.4	86.3
75°	86.7	74.6	64.9	66.5	76.6
77.5°	76.2	67.3	59.5	58.8	66.5
80°	63.8	61.1	51.8	50.7	54.9
82.5°	52.6	51.4	42.6	41.4	43.0
85°	38.3	39.9	30.2	29.4	30.9
87.5°	20.1	22.1	15.8	16.6	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)