

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: P225735

Luminaire Tested: **22GR-LD5-28-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225735
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-LD5-28-A125-UNV-L950-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: 2669.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

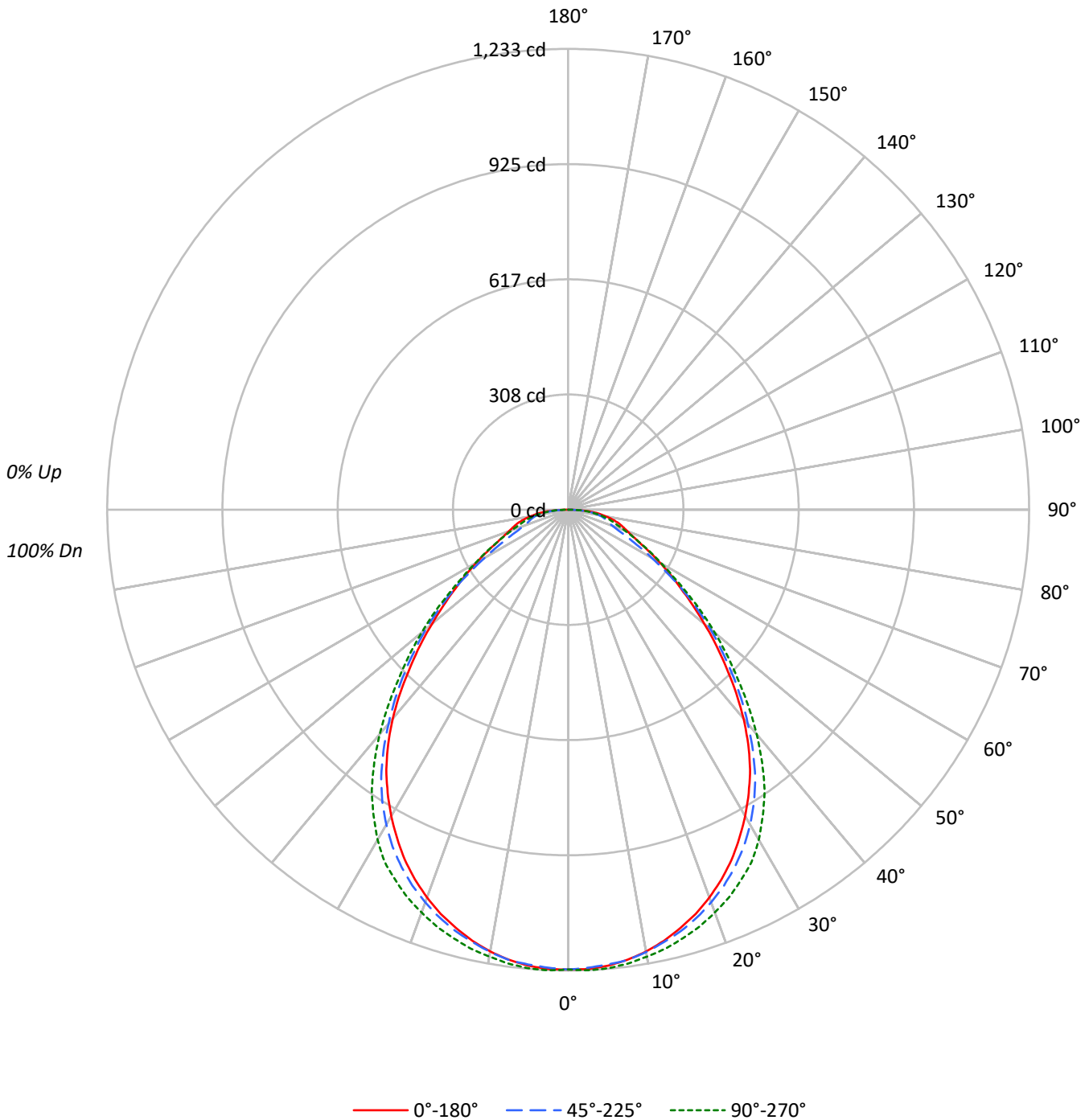
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3940	3940	3940
5°	3937	3927	3959
10°	3904	3908	3948
15°	3842	3868	3934
20°	3762	3811	3909
25°	3653	3727	3864
30°	3500	3599	3772
35°	3316	3409	3581
40°	3049	3125	3280
45°	2709	2807	2909
50°	2366	2474	2548
55°	2057	2085	2161
60°	1810	1658	1845
65°	1608	1325	1618
70°	1579	1177	1492
75°	1725	1294	1524
80°	1892	1538	1630
85°	2263	1782	1830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	4.4
10°-20°	329.7	12.4
20°-30°	486.8	18.2
30°-40°	544.7	20.4
40°-50°	478.3	17.9
50°-60°	338.5	12.7
60°-70°	197.0	7.4
70°-80°	122.8	4.6
80°-90°	54.9	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°	932.8	34.9
0°-40°	1477.5	55.4
0°-60°	2294.3	86.0
0°-90°	2669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1225	1222	1222	1228	1232	116
15°	1159	1161	1167	1179	1187	326
25°	1034	1038	1055	1080	1093	475
35°	848	852	872	898	916	528
45°	598	605	620	635	642	463
55°	368	376	373	380	387	333
65°	212	195	175	190	214	215
75°	139	120	105	107	123	146
85°	62	64	48	47	50	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.3	1230.3	1230.3	1230.3	1230.3
2.5°	1230.3	1227.8	1226.6	1231.0	1233.4
5°	1224.7	1221.6	1221.6	1227.8	1231.5
7.5°	1214.8	1211.7	1215.4	1220.9	1224.7
10°	1200.4	1199.2	1201.7	1209.1	1214.1
12.5°	1181.7	1182.4	1184.8	1196.6	1202.9
15°	1158.7	1161.3	1166.8	1179.3	1186.7
17.5°	1133.9	1135.7	1144.4	1158.7	1169.4
20°	1103.9	1107.7	1118.3	1136.3	1146.9
22.5°	1071.0	1075.3	1088.5	1110.2	1123.2
25°	1033.7	1038.0	1054.8	1079.7	1093.4
27.5°	991.4	998.2	1016.8	1044.2	1062.9
30°	946.5	952.1	973.2	1004.4	1019.9
32.5°	898.6	905.4	925.4	955.2	969.0
35°	848.2	851.9	871.9	898.0	916.0
37.5°	791.0	792.8	811.4	835.7	851.9
40°	729.4	730.5	747.4	770.4	784.7
42.5°	665.2	665.8	683.9	701.3	713.8
45°	598.1	604.9	619.8	634.7	642.2
47.5°	537.6	542.6	556.4	569.4	576.2
50°	474.8	487.3	496.6	503.4	511.5
52.5°	420.7	431.2	433.7	441.8	448.7
55°	368.4	375.8	373.4	380.2	387.1
57.5°	324.2	320.5	312.4	324.2	333.0
60°	282.6	272.5	258.9	275.1	288.1
62.5°	245.2	229.0	212.2	228.4	250.2
65°	212.2	195.4	174.9	190.5	213.5
67.5°	187.3	169.9	145.6	161.2	184.2
70°	168.6	150.6	125.7	138.8	159.3
72.5°	153.7	134.4	112.7	121.4	138.8
75°	139.4	120.1	104.6	107.0	123.2
77.5°	122.6	108.3	95.8	94.5	107.0
80°	102.6	98.3	83.4	81.5	88.4
82.5°	84.6	82.8	68.4	66.6	69.1
85°	61.6	64.1	48.5	47.3	49.8
87.5°	32.4	35.5	25.5	26.8	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)