

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: P292431

Luminaire Tested: **22GR-LD5-28-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

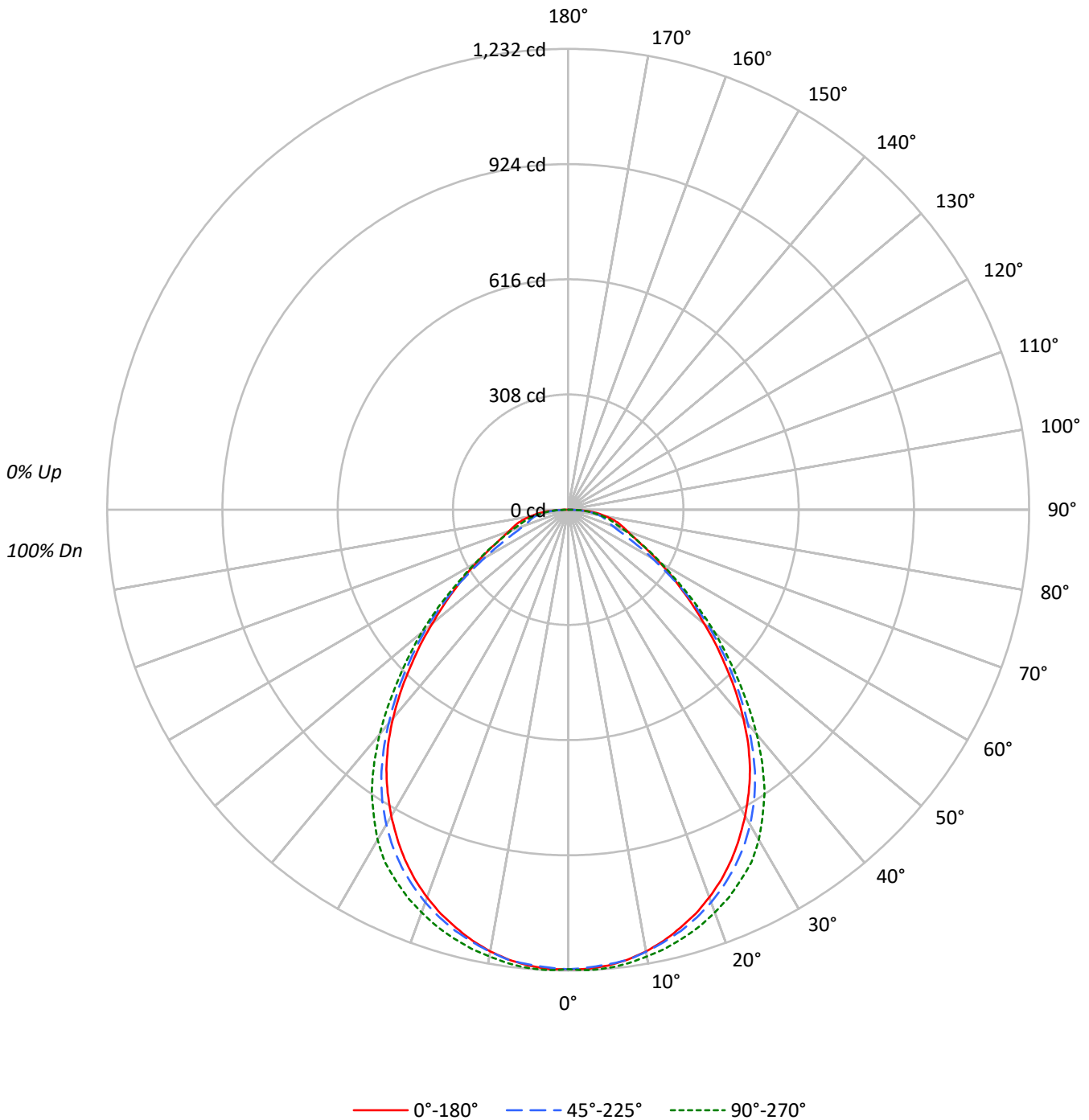
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3307	3307	3307
5°	3304	3296	3323
10°	3277	3280	3314
15°	3224	3247	3302
20°	3158	3199	3281
25°	3066	3128	3243
30°	2938	3021	3166
35°	2783	2861	3006
40°	2559	2622	2753
45°	2273	2356	2441
50°	1986	2076	2139
55°	1727	1750	1814
60°	1519	1392	1549
65°	1350	1112	1358
70°	1326	988	1252
75°	1447	1085	1280
80°	1590	1291	1368
85°	1899	1497	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	4.4
10°-20°	329.4	12.4
20°-30°	486.2	18.2
30°-40°	544.1	20.4
40°-50°	477.8	17.9
50°-60°	338.1	12.7
60°-70°	196.8	7.4
70°-80°	122.6	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°	931.7	34.9
0°-40°	1475.8	55.4
0°-60°	2291.7	86.0
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1223	1220	1220	1226	1230	116
15°	1157	1160	1166	1178	1185	326
25°	1032	1037	1054	1078	1092	474
35°	847	851	871	897	915	527
45°	597	604	619	634	642	462
55°	368	375	373	380	387	333
65°	212	195	175	190	213	215
75°	139	120	104	107	123	145
85°	62	64	48	47	50	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.9	1228.9	1228.9	1228.9	1228.9
2.5°	1228.9	1226.4	1225.2	1229.5	1232.0
5°	1223.3	1220.2	1220.2	1226.4	1230.1
7.5°	1213.4	1210.2	1214.0	1219.6	1223.3
10°	1199.1	1197.8	1200.3	1207.8	1212.7
12.5°	1180.4	1181.0	1183.5	1195.3	1201.5
15°	1157.4	1159.9	1165.5	1177.9	1185.4
17.5°	1132.5	1134.4	1143.1	1157.4	1168.0
20°	1102.7	1106.4	1117.0	1135.0	1145.6
22.5°	1069.8	1074.1	1087.2	1108.9	1122.0
25°	1032.5	1036.8	1053.6	1078.5	1092.1
27.5°	990.2	997.0	1015.7	1043.0	1061.7
30°	945.4	951.0	972.2	1003.3	1018.8
32.5°	897.6	904.4	924.3	954.1	967.8
35°	847.2	851.0	870.9	897.0	915.0
37.5°	790.0	791.9	810.6	834.8	851.0
40°	728.5	729.8	746.5	769.5	783.8
42.5°	664.5	665.1	683.1	700.5	713.0
45°	597.4	604.2	619.1	634.0	641.5
47.5°	537.1	542.0	555.7	568.8	575.6
50°	474.3	486.7	496.0	502.9	511.0
52.5°	420.2	430.8	433.3	441.3	448.2
55°	368.0	375.4	373.0	379.8	386.6
57.5°	323.9	320.1	312.0	323.9	332.6
60°	282.2	272.3	258.6	274.7	287.8
62.5°	244.9	228.7	212.0	228.1	249.9
65°	212.0	195.2	174.7	190.2	213.2
67.5°	187.1	169.7	145.5	161.0	184.0
70°	168.5	150.4	125.6	138.6	159.1
72.5°	153.5	134.3	112.5	121.2	138.6
75°	139.2	120.0	104.4	106.9	123.1
77.5°	122.5	108.2	95.7	94.5	106.9
80°	102.6	98.2	83.3	81.4	88.3
82.5°	84.5	82.7	68.4	66.5	69.0
85°	61.5	64.0	48.5	47.2	49.7
87.5°	32.3	35.4	25.5	26.7	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)