

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: P292429

Luminaire Tested: **22GR-LD5-28-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292429
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

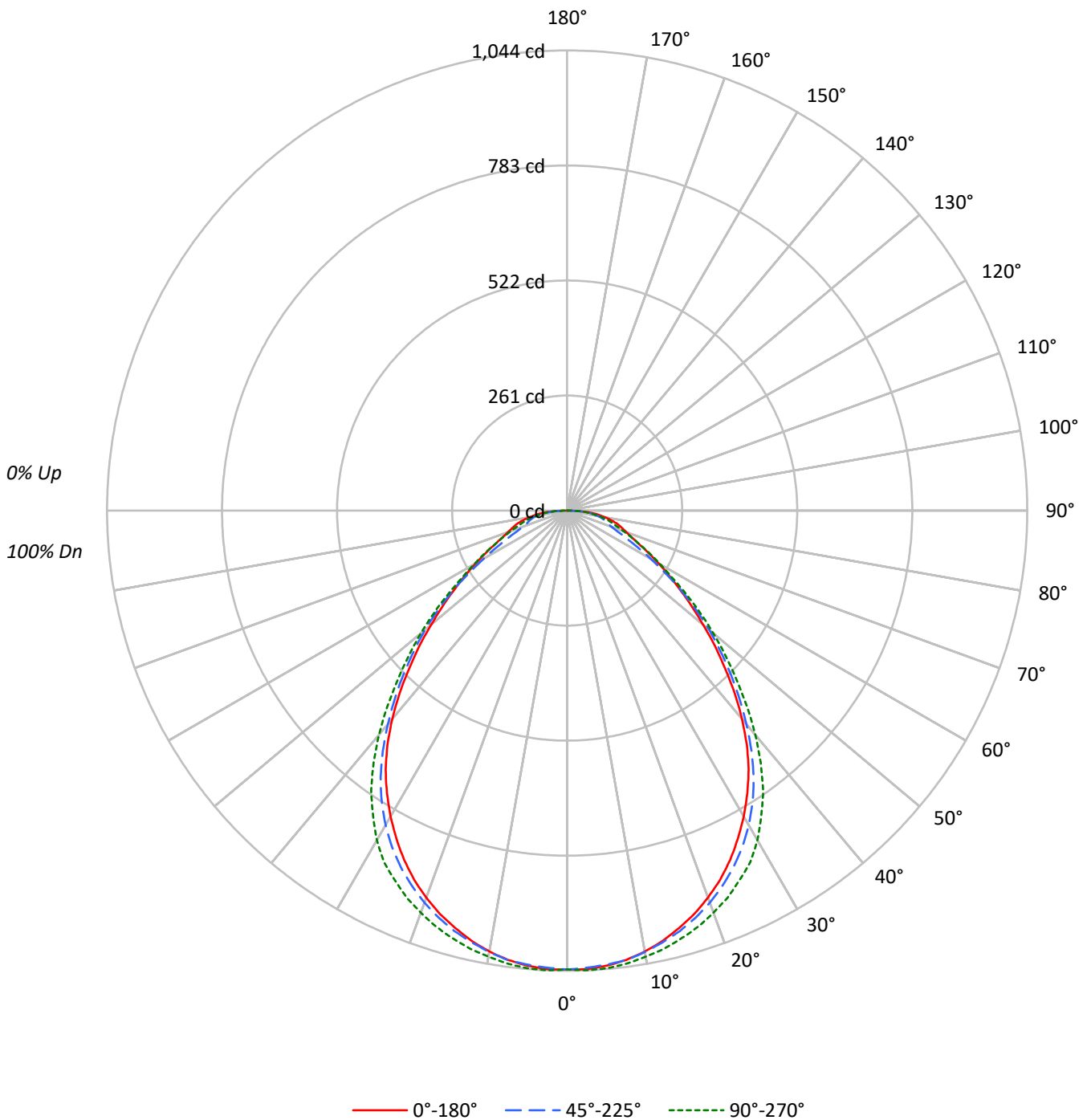
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2802	2802	2802
5°	2800	2793	2816
10°	2776	2779	2808
15°	2732	2751	2798
20°	2676	2710	2780
25°	2597	2651	2748
30°	2489	2560	2683
35°	2358	2424	2547
40°	2168	2222	2333
45°	1926	1996	2069
50°	1683	1760	1812
55°	1463	1483	1537
60°	1287	1179	1313
65°	1144	942	1151
70°	1123	837	1061
75°	1227	920	1084
80°	1347	1094	1159
85°	1609	1269	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	4.4
10°-20°	279.1	12.4
20°-30°	412.0	18.2
30°-40°	461.0	20.4
40°-50°	404.9	17.9
50°-60°	286.5	12.7
60°-70°	166.7	7.4
70°-80°	103.9	4.6
80°-90°	46.5	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°	789.5	34.9
0°-40°	1250.5	55.4
0°-60°	1941.8	86.0
0°-90°	2259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1036	1034	1034	1039	1042	98
15°	981	983	988	998	1004	276
25°	875	878	893	914	925	402
35°	718	721	738	760	775	446
45°	506	512	525	537	544	392
55°	312	318	316	322	328	282
65°	180	165	148	161	181	182
75°	118	102	88	91	104	123
85°	52	54	41	40	42	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1041.3	1039.2	1038.1	1041.8	1043.9
5°	1036.5	1033.9	1033.9	1039.2	1042.3
7.5°	1028.1	1025.5	1028.6	1033.4	1036.5
10°	1016.0	1015.0	1017.1	1023.4	1027.6
12.5°	1000.2	1000.7	1002.8	1012.8	1018.1
15°	980.7	982.8	987.6	998.1	1004.4
17.5°	959.6	961.2	968.6	980.7	989.7
20°	934.4	937.5	946.5	961.8	970.7
22.5°	906.5	910.1	921.2	939.6	950.7
25°	874.8	878.5	892.8	913.8	925.4
27.5°	839.0	844.8	860.6	883.8	899.6
30°	801.1	805.9	823.8	850.1	863.3
32.5°	760.6	766.3	783.2	808.5	820.1
35°	717.9	721.1	737.9	760.0	775.3
37.5°	669.4	671.0	686.8	707.4	721.1
40°	617.3	618.3	632.6	652.1	664.2
42.5°	563.0	563.6	578.8	593.6	604.1
45°	506.2	512.0	524.6	537.2	543.6
47.5°	455.1	459.3	470.9	481.9	487.7
50°	401.9	412.4	420.3	426.1	432.9
52.5°	356.0	365.0	367.1	374.0	379.8
55°	311.8	318.1	316.0	321.8	327.6
57.5°	274.4	271.3	264.4	274.4	281.8
60°	239.1	230.7	219.1	232.8	243.9
62.5°	207.5	193.8	179.6	193.3	211.7
65°	179.6	165.4	148.0	161.2	180.7
67.5°	158.5	143.8	123.2	136.4	155.9
70°	142.7	127.5	106.4	117.5	134.8
72.5°	130.1	113.8	95.3	102.7	117.5
75°	118.0	101.7	88.5	90.6	104.3
77.5°	103.8	91.6	81.1	80.1	90.6
80°	86.9	83.2	70.6	69.0	74.8
82.5°	71.6	70.1	57.9	56.4	58.5
85°	52.1	54.3	41.1	40.0	42.1
87.5°	27.4	30.0	21.6	22.6	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)