

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: P292376

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292376
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-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2836.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

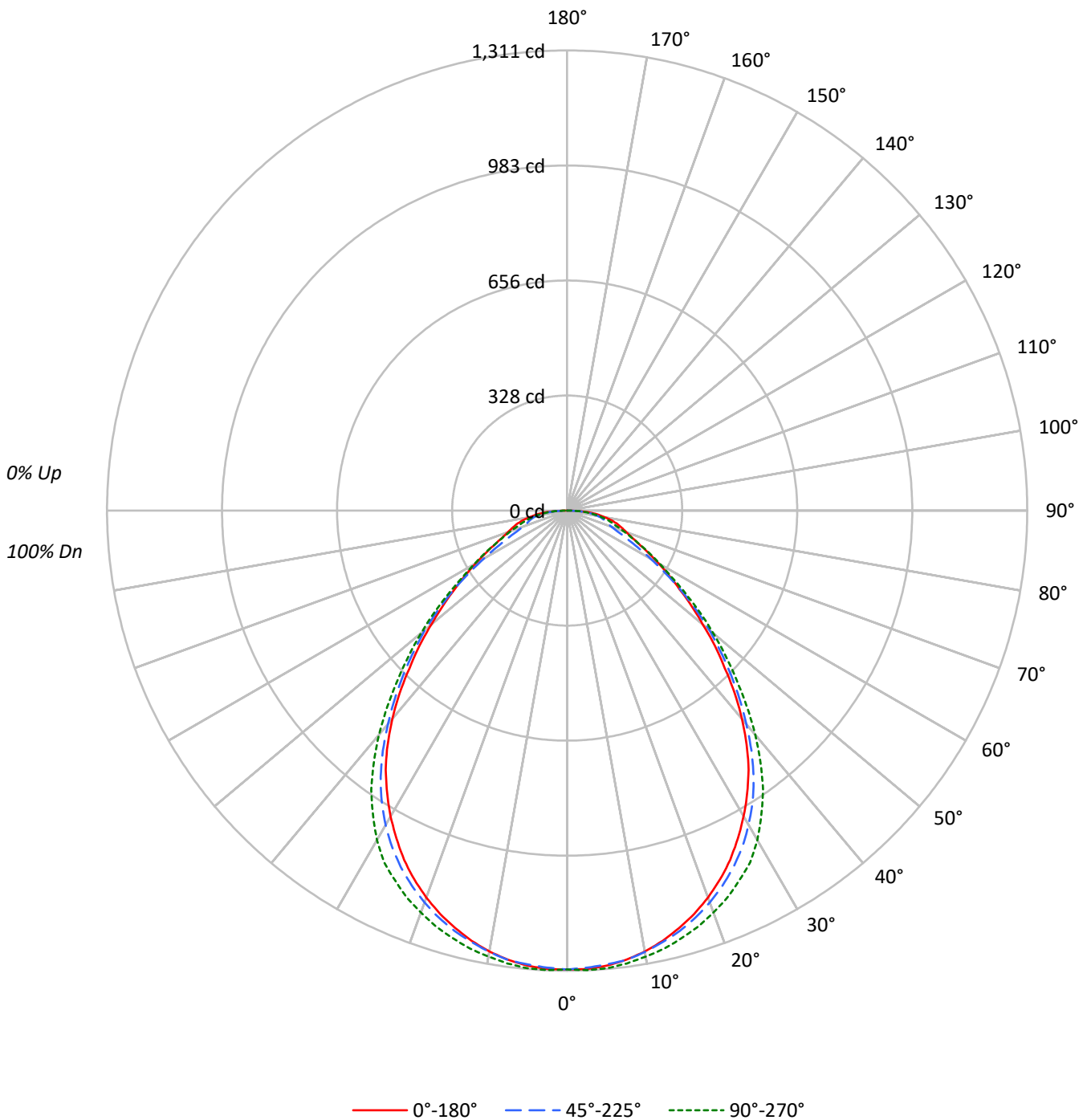
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3518	3518	3518
5°	3515	3506	3535
10°	3485	3489	3525
15°	3430	3454	3513
20°	3359	3403	3490
25°	3261	3328	3450
30°	3125	3214	3368
35°	2961	3043	3197
40°	2722	2790	2929
45°	2418	2506	2597
50°	2112	2209	2275
55°	1836	1861	1930
60°	1616	1481	1648
65°	1436	1183	1444
70°	1410	1051	1332
75°	1540	1155	1361
80°	1691	1373	1455
85°	2022	1593	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	4.4
10°-20°	350.4	12.4
20°-30°	517.2	18.2
30°-40°	578.8	20.4
40°-50°	508.3	17.9
50°-60°	359.6	12.7
60°-70°	209.3	7.4
70°-80°	130.5	4.6
80°-90°	58.4	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°	991.1	34.9
0°-40°	1569.9	55.4
0°-60°	2437.8	86.0
0°-90°	2836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1301	1298	1298	1305	1309	123
15°	1231	1234	1240	1253	1261	347
25°	1098	1103	1121	1147	1162	504
35°	901	905	926	954	973	561
45°	635	643	659	674	682	491
55°	391	399	397	404	411	354
65°	226	208	186	202	227	229
75°	148	128	111	114	131	155
85°	66	68	52	50	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307.3	1307.3	1307.3	1307.3	1307.3
2.5°	1307.3	1304.6	1303.3	1307.9	1310.6
5°	1301.3	1298.0	1298.0	1304.6	1308.6
7.5°	1290.7	1287.4	1291.4	1297.3	1301.3
10°	1275.5	1274.2	1276.8	1284.8	1290.1
12.5°	1255.7	1256.3	1259.0	1271.5	1278.2
15°	1231.2	1233.9	1239.8	1253.0	1261.0
17.5°	1204.8	1206.7	1216.0	1231.2	1242.5
20°	1173.0	1177.0	1188.2	1207.4	1218.7
22.5°	1138.0	1142.6	1156.5	1179.6	1193.5
25°	1098.3	1102.9	1120.8	1147.2	1161.8
27.5°	1053.3	1060.6	1080.5	1109.5	1129.4
30°	1005.7	1011.7	1034.2	1067.2	1083.8
32.5°	954.8	962.1	983.3	1015.0	1029.5
35°	901.3	905.2	926.4	954.2	973.3
37.5°	840.4	842.4	862.2	888.0	905.2
40°	775.0	776.3	794.1	818.6	833.8
42.5°	706.9	707.5	726.7	745.2	758.4
45°	635.4	642.7	658.6	674.5	682.4
47.5°	571.3	576.6	591.1	605.0	612.3
50°	504.5	517.7	527.7	534.9	543.5
52.5°	447.0	458.2	460.9	469.5	476.7
55°	391.4	399.4	396.7	404.0	411.3
57.5°	344.5	340.5	331.9	344.5	353.8
60°	300.2	289.6	275.1	292.3	306.2
62.5°	260.5	243.3	225.5	242.7	265.8
65°	225.5	207.6	185.8	202.3	226.8
67.5°	199.0	180.5	154.7	171.3	195.7
70°	179.2	160.0	133.6	147.5	169.3
72.5°	163.3	142.8	119.7	128.9	147.5
75°	148.1	127.6	111.1	113.7	130.9
77.5°	130.3	115.1	101.8	100.5	113.7
80°	109.1	104.5	88.6	86.6	93.9
82.5°	89.9	87.9	72.7	70.8	73.4
85°	65.5	68.1	51.6	50.3	52.9
87.5°	34.4	37.7	27.1	28.4	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)