

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: P292381

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292381  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3027.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

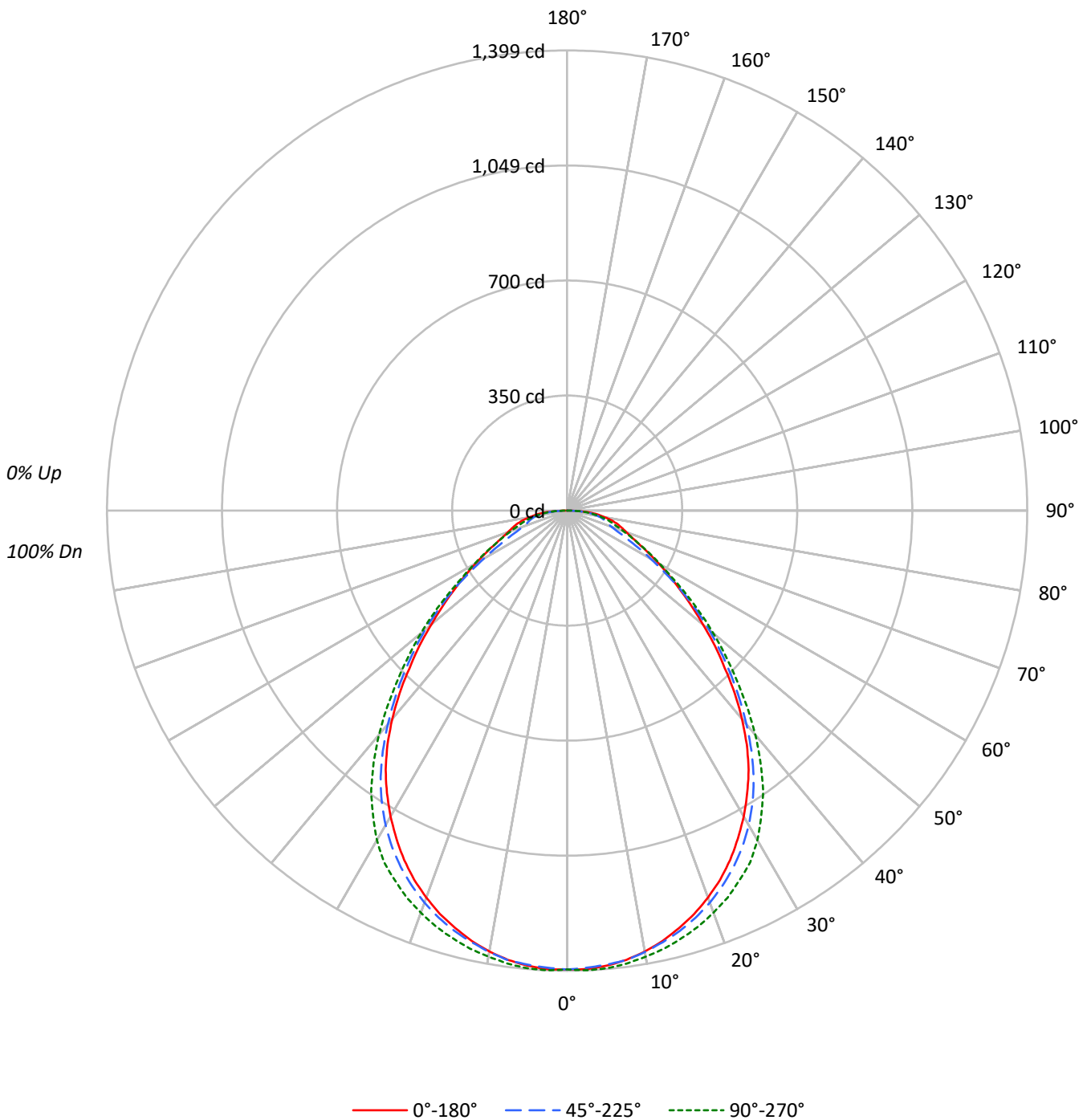
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3755	3755	3755
5°	3752	3742	3773
10°	3720	3724	3762
15°	3661	3687	3750
20°	3585	3632	3725
25°	3481	3552	3682
30°	3336	3430	3594
35°	3160	3248	3413
40°	2906	2977	3126
45°	2581	2675	2772
50°	2254	2358	2429
55°	1960	1987	2060
60°	1724	1580	1759
65°	1533	1263	1542
70°	1505	1122	1422
75°	1644	1233	1452
80°	1805	1466	1553
85°	2158	1698	1744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.9	4.4
10°-20°	374.0	12.4
20°-30°	552.1	18.2
30°-40°	617.8	20.4
40°-50°	542.5	17.9
50°-60°	383.9	12.7
60°-70°	223.4	7.4
70°-80°	139.2	4.6
80°-90°	62.3	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°	1057.9	34.9
0°-40°	1675.7	55.4
0°-60°	2602.0	86.0
0°-90°	3027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1389	1385	1385	1392	1397	132
15°	1314	1317	1323	1337	1346	370
25°	1172	1177	1196	1224	1240	538
35°	962	966	989	1018	1039	598
45°	678	686	703	720	728	525
55°	418	426	424	431	439	378
65°	241	222	198	216	242	244
75°	158	136	119	121	140	165
85°	70	73	55	54	56	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1395.3	1395.3	1395.3	1395.3	1395.3
2.5°	1395.3	1392.5	1391.1	1396.0	1398.8
5°	1388.9	1385.4	1385.4	1392.5	1396.7
7.5°	1377.7	1374.1	1378.4	1384.7	1388.9
10°	1361.4	1360.0	1362.8	1371.3	1376.9
12.5°	1340.2	1341.0	1343.8	1357.2	1364.2
15°	1314.1	1317.0	1323.3	1337.4	1345.9
17.5°	1285.9	1288.0	1297.9	1314.1	1326.1
20°	1252.0	1256.3	1268.3	1288.7	1300.7
22.5°	1214.6	1219.6	1234.4	1259.1	1273.9
25°	1172.3	1177.2	1196.3	1224.5	1240.0
27.5°	1124.3	1132.0	1153.2	1184.3	1205.4
30°	1073.5	1079.8	1103.8	1139.1	1156.7
32.5°	1019.1	1026.9	1049.5	1083.3	1098.9
35°	962.0	966.2	988.8	1018.4	1038.9
37.5°	897.0	899.1	920.3	947.8	966.2
40°	827.2	828.6	847.6	873.7	890.0
42.5°	754.5	755.2	775.6	795.4	809.5
45°	678.2	686.0	702.9	719.9	728.3
47.5°	609.8	615.4	631.0	645.8	653.5
50°	538.5	552.6	563.2	571.0	580.1
52.5°	477.1	489.1	491.9	501.1	508.9
55°	417.8	426.3	423.5	431.2	439.0
57.5°	367.7	363.5	354.3	367.7	377.6
60°	320.4	309.1	293.6	311.9	326.8
62.5°	278.1	259.7	240.7	259.0	283.7
65°	240.7	221.6	198.3	216.0	242.1
67.5°	212.4	192.7	165.1	182.8	208.9
70°	191.3	170.8	142.6	157.4	180.7
72.5°	174.3	152.4	127.7	137.6	157.4
75°	158.1	136.2	118.6	121.4	139.7
77.5°	139.0	122.8	108.7	107.3	121.4
80°	116.5	111.5	94.6	92.5	100.2
82.5°	96.0	93.9	77.6	75.5	78.3
85°	69.9	72.7	55.0	53.6	56.5
87.5°	36.7	40.2	28.9	30.3	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)