

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: P292087

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2751.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

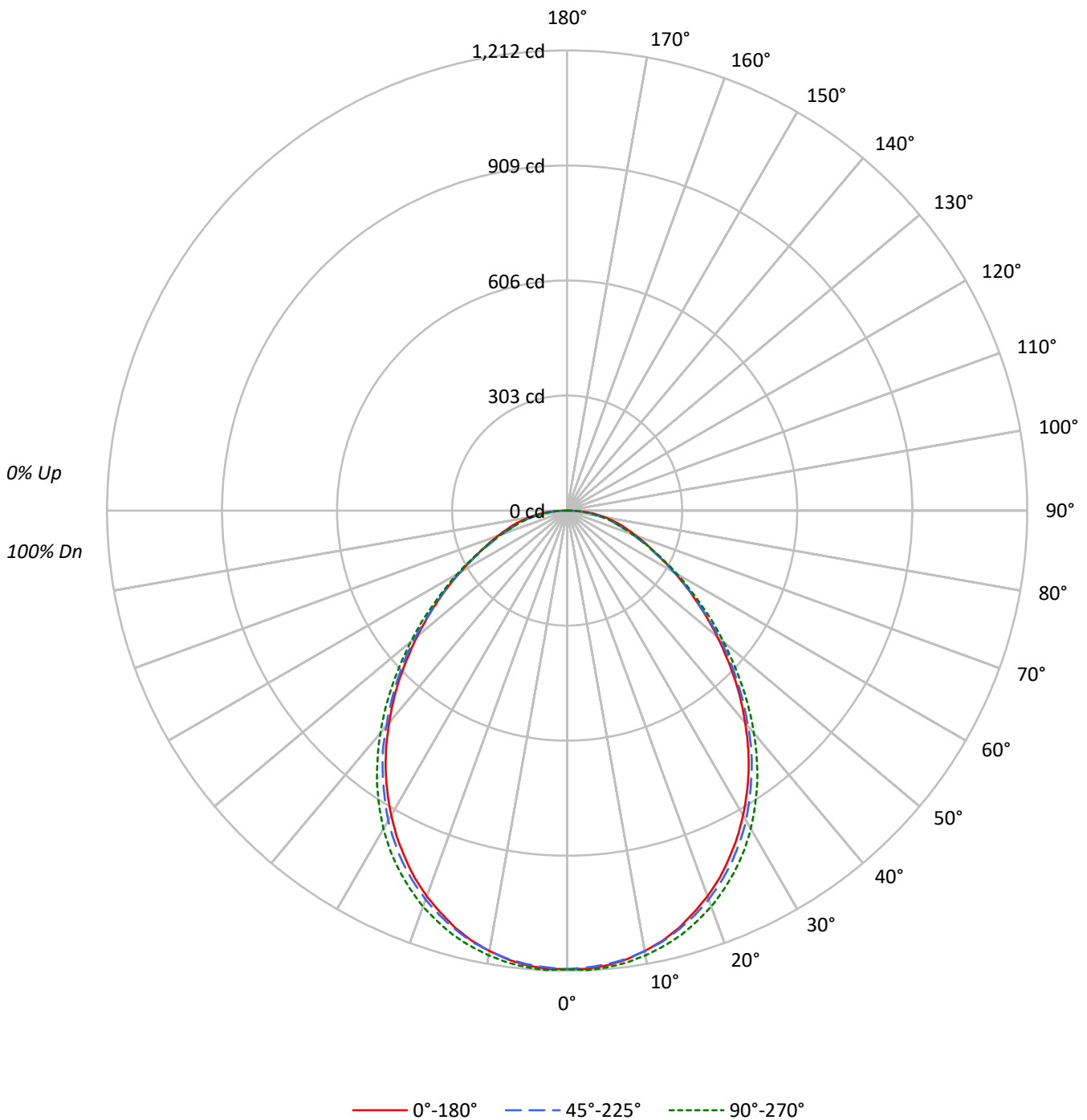
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3250	3250	3250
5°	3249	3240	3262
10°	3218	3220	3249
15°	3169	3180	3226
20°	3095	3122	3179
25°	2998	3040	3106
30°	2880	2930	3007
35°	2738	2782	2869
40°	2561	2603	2688
45°	2371	2407	2478
50°	2159	2194	2250
55°	1949	1955	2013
60°	1749	1756	1796
65°	1593	1561	1598
70°	1517	1431	1456
75°	1526	1381	1387
80°	1582	1395	1385
85°	1735	1479	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	4.1
10°-20°	322.3	11.7
20°-30°	471.7	17.1
30°-40°	530.4	19.3
40°-50°	489.1	17.8
50°-60°	377.0	13.7
60°-70°	248.8	9.0
70°-80°	144.8	5.3
80°-90°	52.7	1.9
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°	908.2	33.0
0°-40°	1438.6	52.3
0°-60°	2304.7	83.8
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1203	1200	1199	1205	1208	114
15°	1138	1138	1141	1152	1158	320
25°	1010	1015	1024	1038	1046	464
35°	834	838	847	864	873	520
45°	623	624	633	645	651	480
55°	416	415	417	424	429	373
65°	250	249	245	247	251	251
75°	147	140	133	130	133	155
85°	56	56	48	44	45	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.7	1207.7	1207.7	1207.7	1207.7
2.5°	1207.7	1205.1	1204.5	1209.0	1211.5
5°	1202.6	1200.0	1199.4	1205.1	1207.7
7.5°	1192.4	1190.5	1191.1	1197.5	1200.7
10°	1177.7	1177.1	1178.3	1185.4	1189.2
12.5°	1160.5	1159.8	1162.4	1170.0	1175.1
15°	1137.5	1137.5	1141.3	1151.5	1157.9
17.5°	1110.0	1112.0	1117.7	1127.9	1134.9
20°	1080.7	1082.6	1090.2	1101.7	1110.0
22.5°	1048.1	1050.7	1058.3	1072.4	1079.4
25°	1009.8	1014.9	1023.9	1037.9	1046.2
27.5°	970.2	976.0	984.3	1001.5	1009.2
30°	926.8	930.7	942.8	958.8	967.7
32.5°	880.9	884.7	894.9	914.1	921.7
35°	833.6	837.5	847.0	864.3	873.2
37.5°	782.6	785.8	797.3	810.7	820.2
40°	729.0	733.4	741.1	757.0	765.3
42.5°	676.6	678.5	686.8	702.8	709.2
45°	623.0	623.6	632.6	645.3	651.1
47.5°	567.5	568.7	579.6	587.3	593.0
50°	515.8	516.4	524.1	531.1	537.5
52.5°	464.1	464.1	467.9	475.5	483.8
55°	415.5	414.9	416.8	423.8	429.0
57.5°	369.6	368.9	371.5	376.0	379.8
60°	324.9	323.6	326.2	328.7	333.8
62.5°	285.3	286.6	283.4	287.2	291.1
65°	250.2	248.9	245.1	247.0	250.9
67.5°	220.2	218.3	211.9	213.2	217.7
70°	192.8	188.9	181.9	181.9	185.1
72.5°	167.9	164.0	155.1	155.7	157.0
75°	146.8	140.4	132.8	130.2	133.4
77.5°	123.8	118.7	111.7	109.8	111.1
80°	102.1	98.3	90.0	87.4	89.4
82.5°	81.1	77.9	68.3	66.4	67.0
85°	56.2	55.5	47.9	44.0	45.3
87.5°	30.0	30.6	24.9	22.3	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)