

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: P292085

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292085
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2697.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

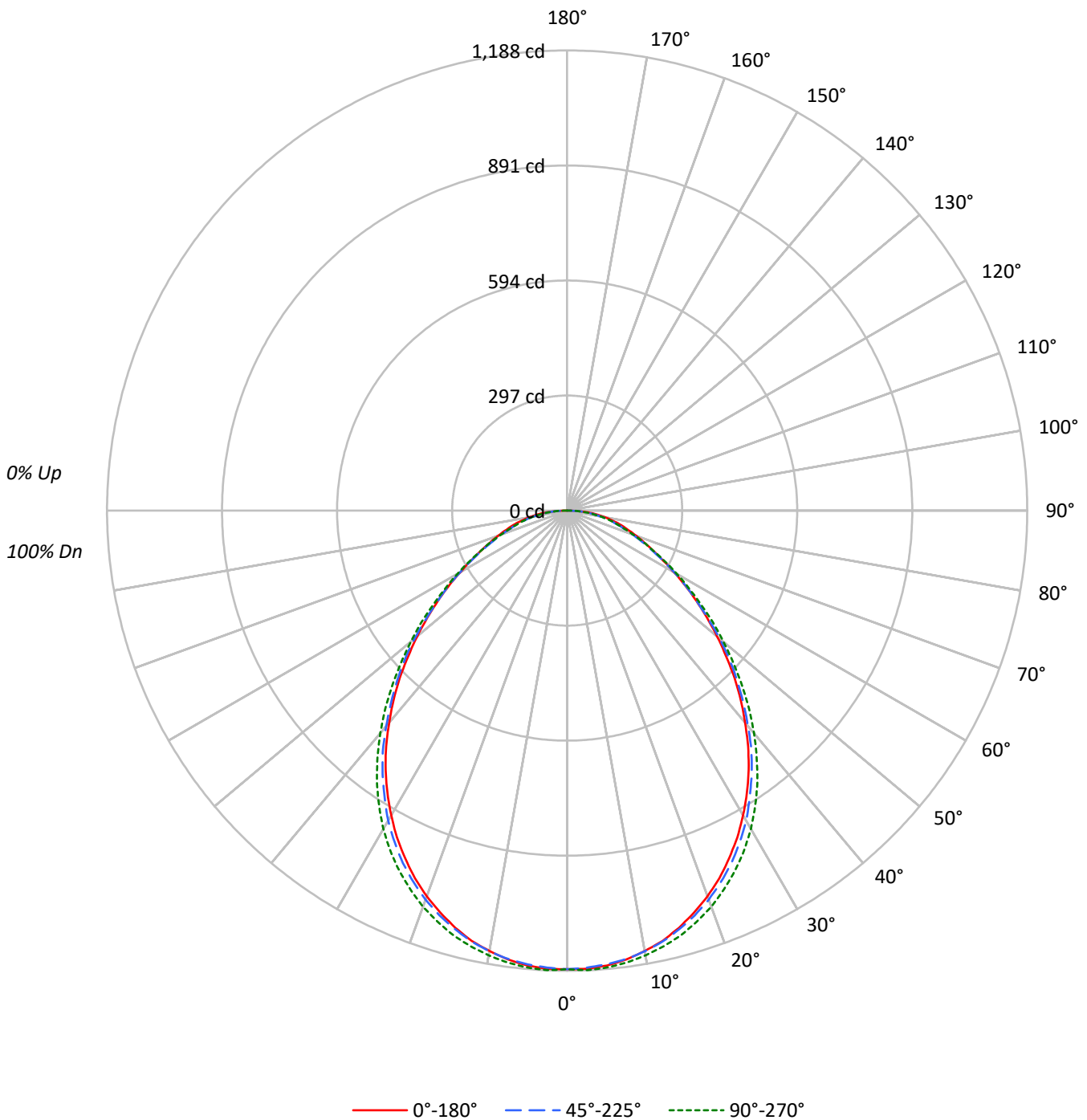
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3186	3186	3186
5°	3185	3176	3198
10°	3155	3157	3186
15°	3107	3117	3163
20°	3034	3061	3116
25°	2939	2980	3045
30°	2823	2872	2948
35°	2685	2728	2812
40°	2511	2552	2636
45°	2324	2360	2429
50°	2117	2151	2206
55°	1911	1917	1973
60°	1714	1721	1762
65°	1562	1530	1566
70°	1487	1404	1428
75°	1496	1354	1360
80°	1551	1367	1358
85°	1701	1448	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	4.1
10°-20°	316.0	11.7
20°-30°	462.5	17.1
30°-40°	520.0	19.3
40°-50°	479.5	17.8
50°-60°	369.6	13.7
60°-70°	243.9	9.0
70°-80°	142.0	5.3
80°-90°	51.7	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°	890.3	33.0
0°-40°	1410.3	52.3
0°-60°	2259.4	83.8
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1179	1176	1176	1182	1184	112
15°	1115	1115	1119	1129	1135	314
25°	990	995	1004	1018	1026	455
35°	817	821	830	847	856	510
45°	611	611	620	633	638	470
55°	407	407	409	416	420	365
65°	245	244	240	242	246	246
75°	144	138	130	128	131	152
85°	55	54	47	43	44	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.0	1184.0	1184.0	1184.0	<i>1184.0</i>
2.5°	<i>1184.0</i>	<i>1181.5</i>	<i>1180.9</i>	<i>1185.2</i>	<i>1187.7</i>
5°	1179.0	1176.5	1175.9	1181.5	<i>1184.0</i>
7.5°	1169.0	1167.1	1167.7	1174.0	<i>1177.1</i>
10°	1154.6	1154.0	1155.2	1162.1	<i>1165.8</i>
12.5°	1137.7	1137.1	1139.6	1147.1	<i>1152.1</i>
15°	1115.2	1115.2	1118.9	1128.9	<i>1135.2</i>
17.5°	1088.2	1090.1	1095.8	1105.8	<i>1112.7</i>
20°	1059.5	1061.3	1068.8	1080.1	<i>1088.2</i>
22.5°	1027.5	1030.0	1037.6	1051.3	<i>1058.2</i>
25°	990.0	995.0	1003.8	1017.5	<i>1025.7</i>
27.5°	951.2	956.8	965.0	981.9	<i>989.4</i>
30°	908.6	912.4	924.3	939.9	<i>948.7</i>
32.5°	863.6	867.3	877.4	896.1	<i>903.6</i>
35°	817.3	821.0	830.4	847.3	<i>856.1</i>
37.5°	767.2	770.3	781.6	794.8	<i>804.1</i>
40°	714.7	719.0	726.5	742.2	<i>750.3</i>
42.5°	663.3	665.2	673.3	689.0	<i>695.3</i>
45°	610.8	611.4	620.2	632.7	<i>638.3</i>
47.5°	556.3	557.6	568.2	575.7	<i>581.4</i>
50°	505.6	506.3	513.8	520.7	<i>526.9</i>
52.5°	454.9	454.9	458.7	466.2	<i>474.3</i>
55°	407.4	406.8	408.6	415.5	<i>420.5</i>
57.5°	362.3	361.7	364.2	368.6	<i>372.3</i>
60°	318.5	317.3	319.8	322.3	<i>327.3</i>
62.5°	279.7	281.0	277.9	281.6	<i>285.4</i>
65°	245.3	244.1	240.3	242.2	<i>245.9</i>
67.5°	215.9	214.0	207.8	209.0	<i>213.4</i>
70°	189.0	185.2	178.4	178.4	<i>181.5</i>
72.5°	164.6	160.8	152.1	152.7	<i>153.9</i>
75°	143.9	137.7	130.2	127.7	<i>130.8</i>
77.5°	121.4	116.4	109.5	107.6	<i>108.9</i>
80°	100.1	96.4	88.2	85.7	<i>87.6</i>
82.5°	79.5	76.3	67.0	65.1	<i>65.7</i>
85°	55.1	54.4	46.9	43.2	<i>44.4</i>
87.5°	29.4	30.0	24.4	21.9	<i>23.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)