

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: P292098

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292098  
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-LD5-36-F125-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2835.0 lumens  
Efficiency: N/A  
Efficacy: 101.3 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

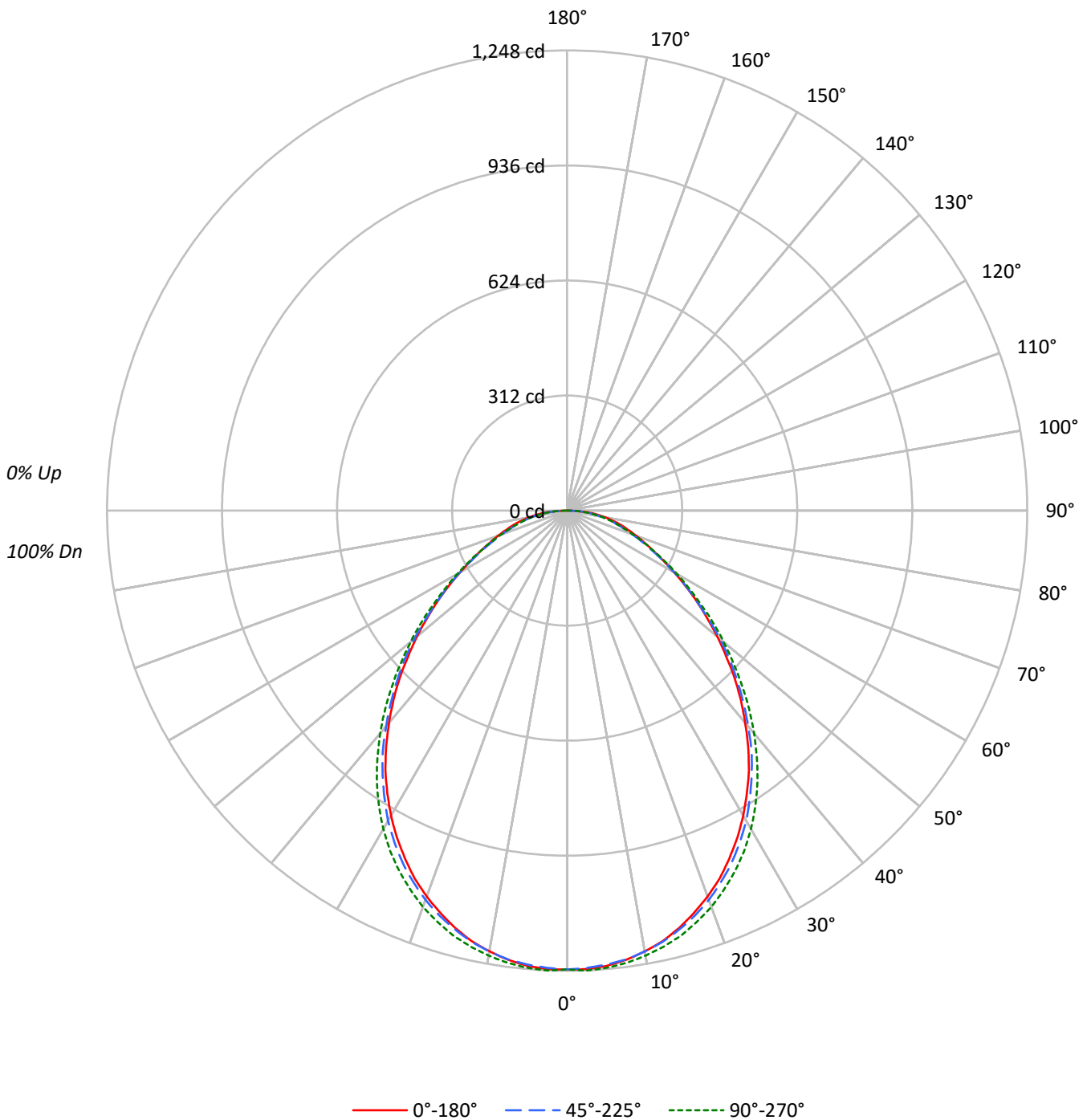
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3349	3349	3349
5°	3348	3339	3362
10°	3316	3318	3349
15°	3266	3277	3324
20°	3189	3217	3276
25°	3090	3133	3201
30°	2968	3019	3099
35°	2822	2868	2956
40°	2639	2683	2771
45°	2443	2481	2554
50°	2225	2261	2319
55°	2009	2016	2074
60°	1802	1809	1851
65°	1642	1608	1646
70°	1563	1475	1501
75°	1573	1422	1430
80°	1630	1438	1427
85°	1788	1522	1442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	4.1
10°-20°	332.2	11.7
20°-30°	486.2	17.1
30°-40°	546.6	19.3
40°-50°	504.1	17.8
50°-60°	388.5	13.7
60°-70°	256.4	9.0
70°-80°	149.2	5.3
80°-90°	54.4	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°	935.9	33.0
0°-40°	1482.5	52.3
0°-60°	2375.1	83.8
0°-90°	2835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1239	1237	1236	1242	1245	117
15°	1172	1172	1176	1187	1193	330
25°	1041	1046	1055	1070	1078	479
35°	859	863	873	891	900	536
45°	642	643	652	665	671	494
55°	428	428	430	437	442	384
65°	258	256	253	255	258	259
75°	151	145	137	134	138	159
85°	58	57	49	45	47	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1244.6	1244.6	1244.6	1244.6	1244.6
2.5°	1244.6	1241.9	1241.3	1245.9	1248.5
5°	1239.3	1236.7	1236.0	1241.9	1244.6
7.5°	1228.8	1226.8	1227.5	1234.1	1237.3
10°	1213.7	1213.0	1214.3	1221.6	1225.5
12.5°	1195.9	1195.2	1197.9	1205.8	1211.0
15°	1172.2	1172.2	1176.2	1186.7	1193.3
17.5°	1143.9	1145.9	1151.8	1162.4	1169.6
20°	1113.7	1115.6	1123.5	1135.4	1143.9
22.5°	1080.1	1082.8	1090.6	1105.1	1112.4
25°	1040.7	1045.9	1055.1	1069.6	1078.2
27.5°	999.9	1005.8	1014.3	1032.1	1040.0
30°	955.1	959.1	971.6	988.0	997.2
32.5°	907.8	911.7	922.2	942.0	949.9
35°	859.1	863.0	872.9	890.7	899.9
37.5°	806.5	809.8	821.6	835.4	845.3
40°	751.2	755.8	763.7	780.2	788.7
42.5°	697.3	699.3	707.8	724.2	730.8
45°	642.0	642.7	651.9	665.0	671.0
47.5°	584.8	586.1	597.3	605.2	611.1
50°	531.5	532.2	540.1	547.3	553.9
52.5°	478.2	478.2	482.2	490.1	498.6
55°	428.2	427.6	429.6	436.8	442.0
57.5°	380.9	380.2	382.8	387.5	391.4
60°	334.8	333.5	336.1	338.8	344.0
62.5°	294.0	295.4	292.1	296.0	300.0
65°	257.9	256.5	252.6	254.6	258.5
67.5°	226.9	225.0	218.4	219.7	224.3
70°	198.7	194.7	187.5	187.5	190.8
72.5°	173.0	169.1	159.8	160.5	161.8
75°	151.3	144.7	136.8	134.2	137.5
77.5°	127.6	122.4	115.1	113.1	114.5
80°	105.2	101.3	92.8	90.1	92.1
82.5°	83.5	80.3	70.4	68.4	69.1
85°	57.9	57.2	49.3	45.4	46.7
87.5°	30.9	31.6	25.7	23.0	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)