

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: P291972

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291972  
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-LD5-20-F125-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2173.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 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

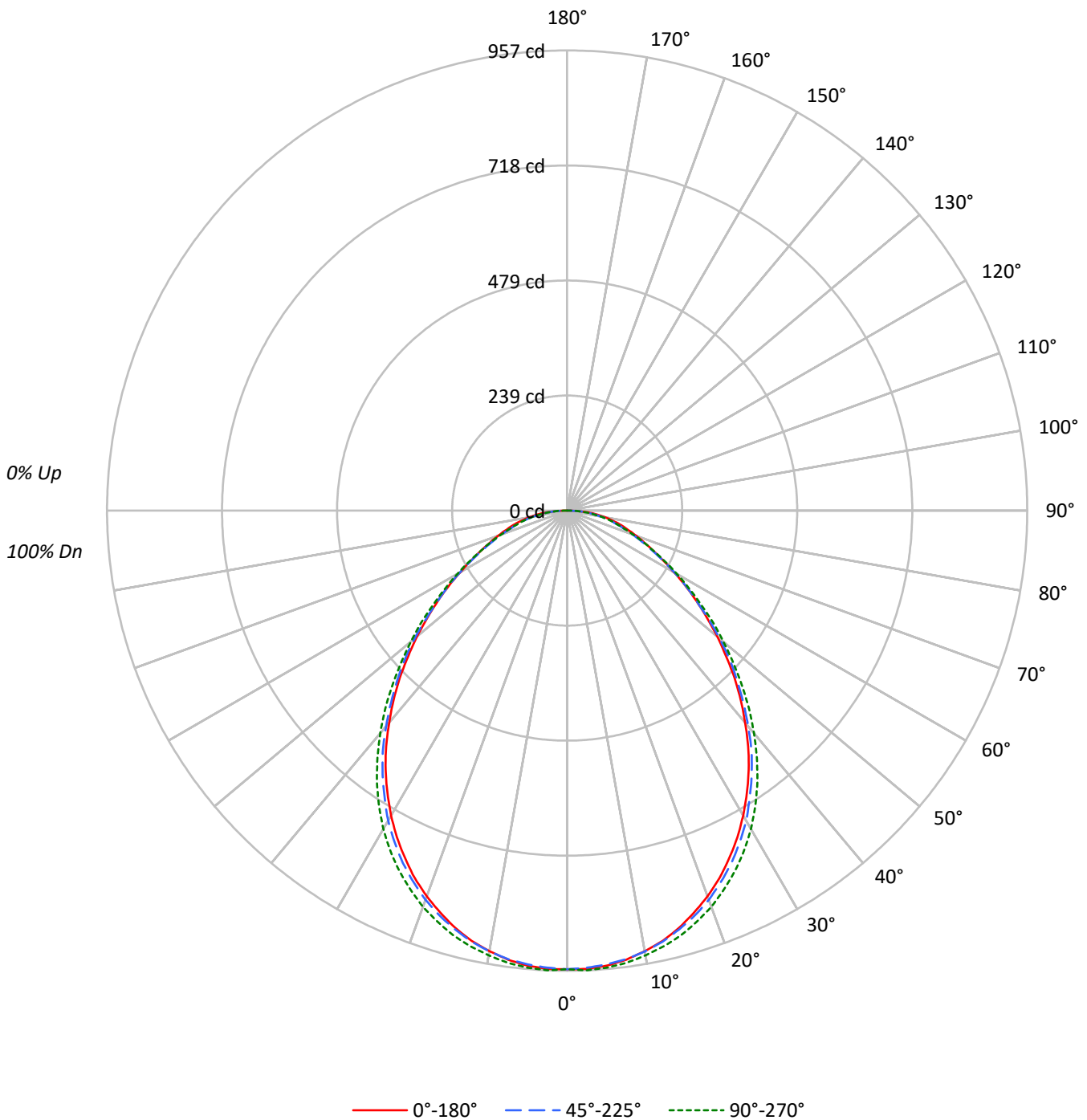
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2567	2567	2567
5°	2566	2559	2577
10°	2542	2543	2567
15°	2503	2511	2548
20°	2444	2466	2511
25°	2369	2401	2454
30°	2275	2314	2375
35°	2163	2198	2266
40°	2023	2056	2124
45°	1873	1902	1957
50°	1706	1733	1777
55°	1540	1544	1590
60°	1381	1386	1419
65°	1258	1233	1262
70°	1198	1131	1150
75°	1206	1091	1096
80°	1251	1102	1094
85°	1371	1167	1105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	4.1
10°-20°	254.6	11.7
20°-30°	372.6	17.1
30°-40°	419.0	19.3
40°-50°	386.4	17.8
50°-60°	297.8	13.7
60°-70°	196.5	9.0
70°-80°	114.4	5.3
80°-90°	41.7	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°	717.3	33.0
0°-40°	1136.3	52.3
0°-60°	1820.5	83.8
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	950	948	947	952	954	90
15°	898	898	902	910	915	253
25°	798	802	809	820	826	367
35°	658	662	669	683	690	411
45°	492	493	500	510	514	379
55°	328	328	329	335	339	294
65°	198	197	194	195	198	198
75°	116	111	105	103	105	122
85°	44	44	38	35	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	954.0	954.0	954.0	954.0	954.0
2.5°	954.0	951.9	951.4	955.0	957.0
5°	949.9	947.9	947.4	951.9	954.0
7.5°	941.9	940.3	940.8	945.9	948.4
10°	930.3	929.8	930.8	936.3	939.3
12.5°	916.6	916.1	918.2	924.2	928.2
15°	898.5	898.5	901.5	909.6	914.6
17.5°	876.8	878.3	882.9	890.9	896.5
20°	853.6	855.1	861.2	870.3	876.8
22.5°	827.9	829.9	836.0	847.1	852.6
25°	797.7	801.7	808.7	819.8	826.4
27.5°	766.4	770.9	777.5	791.1	797.1
30°	732.1	735.1	744.7	757.3	764.4
32.5°	695.8	698.8	706.9	722.0	728.1
35°	658.5	661.5	669.1	682.7	689.8
37.5°	618.2	620.7	629.8	640.3	647.9
40°	575.8	579.3	585.4	598.0	604.5
42.5°	534.5	536.0	542.5	555.1	560.2
45°	492.1	492.6	499.7	509.8	514.3
47.5°	448.2	449.2	457.8	463.9	468.4
50°	407.4	407.9	414.0	419.5	424.5
52.5°	366.6	366.6	369.6	375.6	382.2
55°	328.2	327.7	329.2	334.8	338.8
57.5°	291.9	291.4	293.4	297.0	300.0
60°	256.6	255.6	257.6	259.7	263.7
62.5°	225.4	226.4	223.9	226.9	229.9
65°	197.6	196.6	193.6	195.1	198.2
67.5°	174.0	172.4	167.4	168.4	171.9
70°	152.3	149.2	143.7	143.7	146.2
72.5°	132.6	129.6	122.5	123.0	124.0
75°	116.0	110.9	104.9	102.9	105.4
77.5°	97.8	93.8	88.2	86.7	87.7
80°	80.7	77.6	71.1	69.1	70.6
82.5°	64.0	61.5	53.9	52.4	52.9
85°	44.4	43.9	37.8	34.8	35.8
87.5°	23.7	24.2	19.7	17.6	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)