

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: P292082

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292082
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2497.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

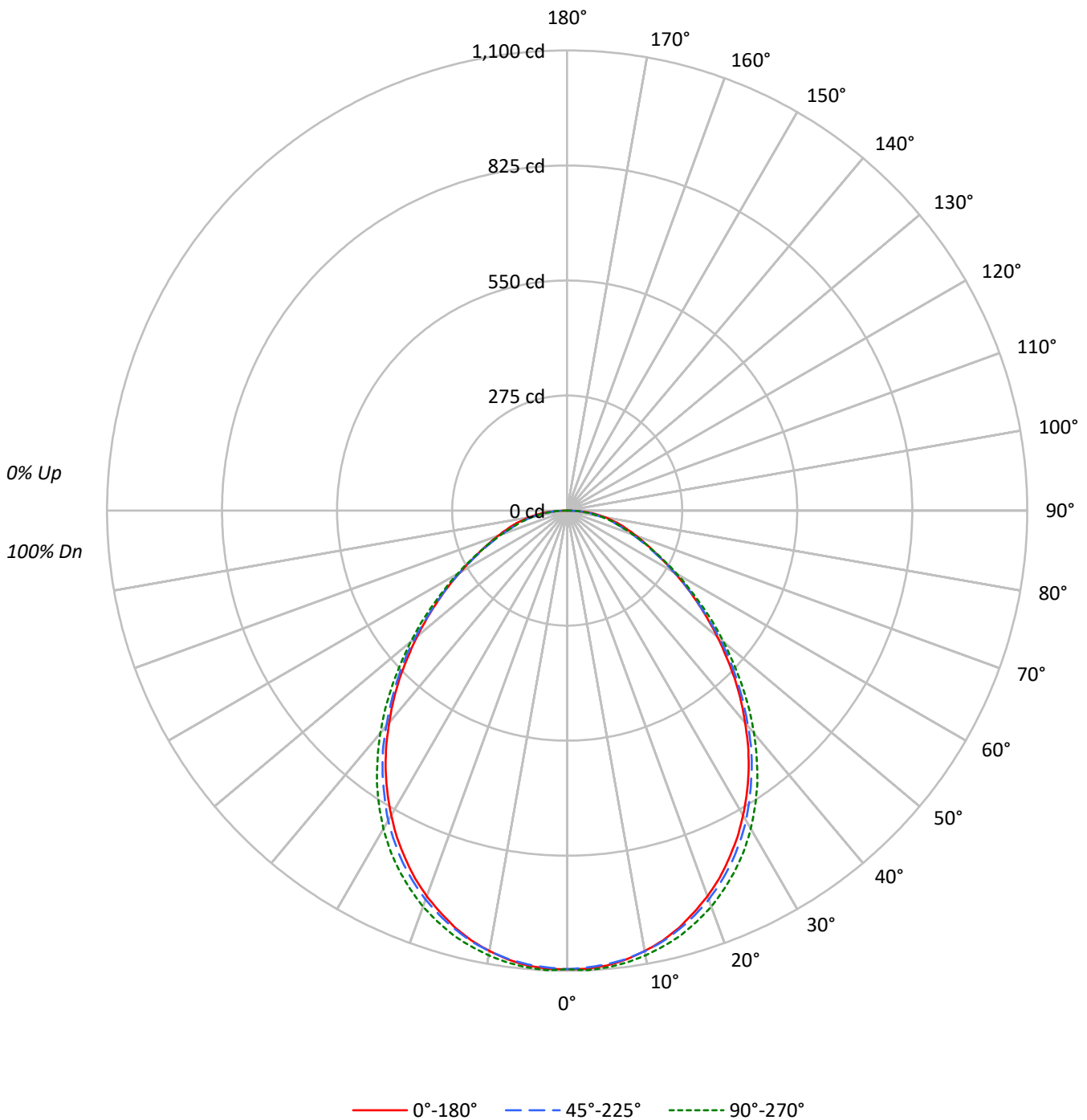
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2950	2950	2950
5°	2949	2941	2961
10°	2921	2922	2949
15°	2876	2886	2928
20°	2809	2834	2885
25°	2722	2759	2820
30°	2614	2659	2729
35°	2486	2526	2604
40°	2324	2363	2440
45°	2152	2185	2249
50°	1960	1991	2042
55°	1770	1775	1826
60°	1587	1594	1631
65°	1446	1417	1450
70°	1377	1299	1322
75°	1386	1253	1259
80°	1437	1266	1257
85°	1575	1343	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	4.1
10°-20°	292.6	11.7
20°-30°	428.2	17.1
30°-40°	481.4	19.3
40°-50°	444.0	17.8
50°-60°	342.2	13.7
60°-70°	225.8	9.0
70°-80°	131.4	5.3
80°-90°	47.9	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°	824.3	33.0
0°-40°	1305.7	52.3
0°-60°	2091.9	83.8
0°-90°	2497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1092	1089	1089	1094	1096	103
15°	1032	1032	1036	1045	1051	291
25°	917	921	929	942	950	422
35°	757	760	769	784	793	472
45°	566	566	574	586	591	435
55°	377	377	378	385	389	338
65°	227	226	222	224	228	228
75°	133	128	120	118	121	140
85°	51	50	44	40	41	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.2	1096.2	1096.2	1096.2	1096.2
2.5°	1096.2	1093.9	1093.3	1097.4	1099.7
5°	1091.6	1089.2	1088.7	1093.9	1096.2
7.5°	1082.3	1080.6	1081.1	1086.9	1089.8
10°	1069.0	1068.4	1069.5	1075.9	1079.4
12.5°	1053.3	1052.7	1055.1	1062.0	1066.6
15°	1032.5	1032.5	1035.9	1045.2	1051.0
17.5°	1007.5	1009.3	1014.5	1023.8	1030.1
20°	980.9	982.6	989.6	1000.0	1007.5
22.5°	951.3	953.7	960.6	973.4	979.7
25°	916.6	921.2	929.3	942.1	949.6
27.5°	880.7	885.9	893.4	909.1	916.0
30°	841.3	844.7	855.7	870.2	878.3
32.5°	799.5	803.0	812.3	829.7	836.6
35°	756.7	760.2	768.8	784.5	792.6
37.5°	710.3	713.2	723.6	735.8	744.5
40°	661.7	665.7	672.7	687.1	694.7
42.5°	614.1	615.9	623.4	637.9	643.7
45°	565.5	566.1	574.2	585.8	591.0
47.5°	515.1	516.2	526.1	533.0	538.2
50°	468.1	468.7	475.7	482.0	487.8
52.5°	421.2	421.2	424.7	431.6	439.2
55°	377.2	376.6	378.3	384.7	389.3
57.5°	335.5	334.9	337.2	341.3	344.7
60°	294.9	293.7	296.1	298.4	303.0
62.5°	259.0	260.1	257.2	260.7	264.2
65°	227.1	226.0	222.5	224.2	227.7
67.5°	199.9	198.1	192.4	193.5	197.6
70°	175.0	171.5	165.1	165.1	168.0
72.5°	152.4	148.9	140.8	141.4	142.5
75°	133.3	127.5	120.5	118.2	121.1
77.5°	112.4	107.8	101.4	99.7	100.8
80°	92.7	89.2	81.7	79.4	81.1
82.5°	73.6	70.7	62.0	60.3	60.8
85°	51.0	50.4	43.5	40.0	41.1
87.5°	27.2	27.8	22.6	20.3	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)