

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: P292006

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292006
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-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3762.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

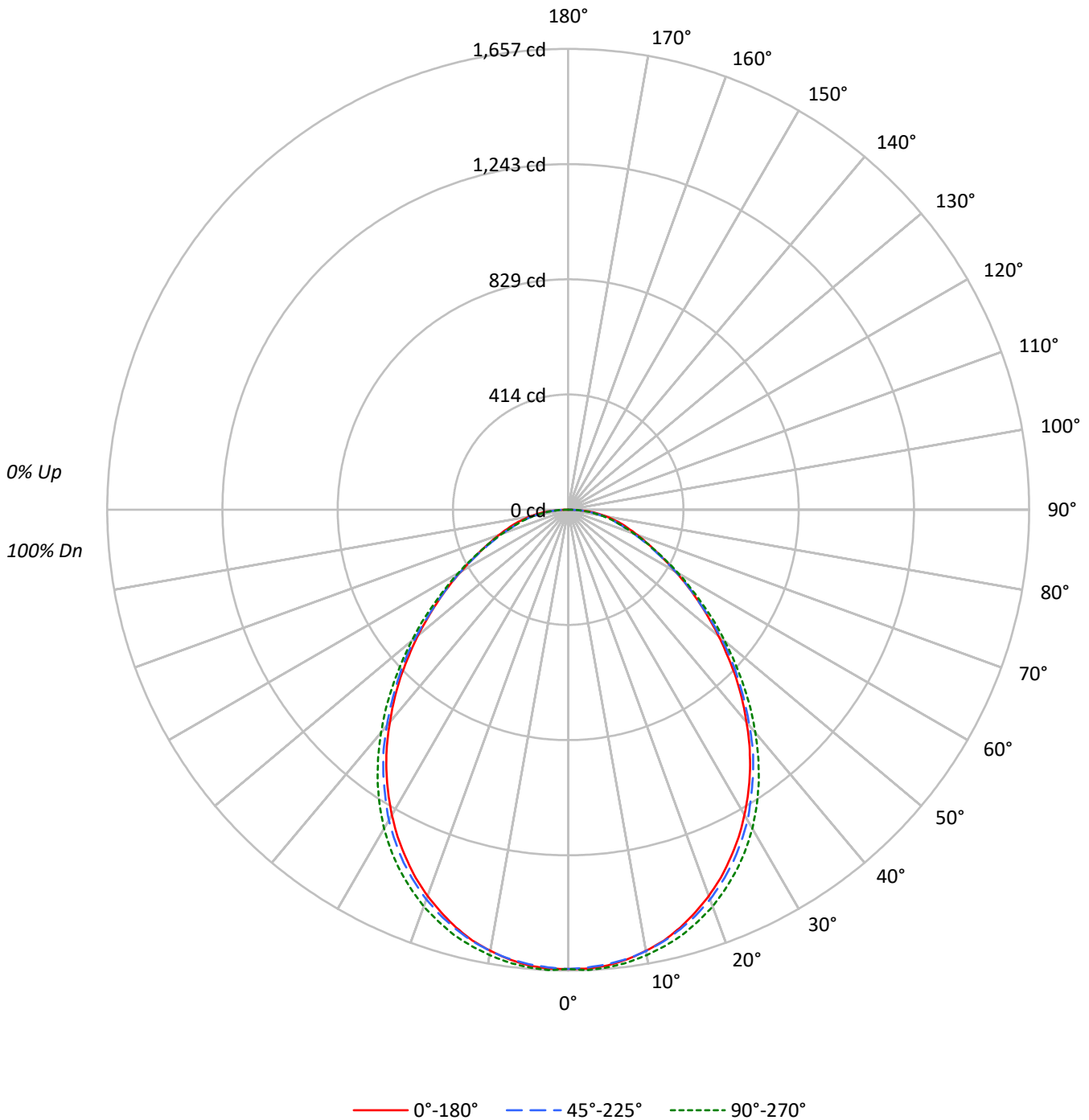
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4444	4444	4444
5°	4442	4431	4461
10°	4401	4403	4444
15°	4333	4348	4411
20°	4232	4269	4347
25°	4100	4157	4248
30°	3938	4006	4112
35°	3745	3805	3923
40°	3502	3560	3677
45°	3242	3292	3389
50°	2953	3000	3077
55°	2666	2674	2752
60°	2391	2401	2457
65°	2179	2134	2185
70°	2074	1958	1991
75°	2088	1888	1896
80°	2165	1908	1894
85°	2371	2022	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	4.1
10°-20°	440.8	11.7
20°-30°	645.1	17.1
30°-40°	725.3	19.3
40°-50°	668.9	17.8
50°-60°	515.5	13.7
60°-70°	340.2	9.0
70°-80°	198.0	5.3
80°-90°	72.1	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°	1241.9	33.0
0°-40°	1967.2	52.3
0°-60°	3151.7	83.8
0°-90°	3762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1645	1641	1640	1648	1652	156
15°	1556	1556	1561	1575	1583	438
25°	1381	1388	1400	1419	1431	635
35°	1140	1145	1158	1182	1194	711
45°	852	853	865	882	890	656
55°	568	567	570	580	587	510
65°	342	340	335	338	343	343
75°	201	192	182	178	182	211
85°	77	76	66	60	62	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.5	1651.5	1651.5	1651.5	1651.5
2.5°	1651.5	1648.0	1647.2	1653.3	1656.8
5°	1644.6	1641.1	1640.2	1648.0	1651.5
7.5°	1630.6	1628.0	1628.8	1637.6	1641.9
10°	1610.5	1609.6	1611.4	1621.0	1626.2
12.5°	1586.9	1586.1	1589.6	1600.0	1607.0
15°	1555.5	1555.5	1560.8	1574.7	1583.4
17.5°	1518.0	1520.6	1528.5	1542.4	1552.0
20°	1477.8	1480.4	1490.9	1506.6	1518.0
22.5°	1433.3	1436.8	1447.3	1466.5	1476.1
25°	1380.9	1387.9	1400.1	1419.3	1430.7
27.5°	1326.8	1334.7	1346.0	1369.6	1380.1
30°	1267.5	1272.7	1289.3	1311.1	1323.3
32.5°	1204.6	1209.8	1223.8	1250.0	1260.5
35°	1140.0	1145.2	1158.3	1181.9	1194.1
37.5°	1070.2	1074.5	1090.3	1108.6	1121.7
40°	996.9	1003.0	1013.4	1035.3	1046.6
42.5°	925.3	927.9	939.2	961.1	969.8
45°	852.0	852.8	865.0	882.5	890.4
47.5°	776.0	777.8	792.6	803.1	810.9
50°	705.3	706.2	716.7	726.3	735.0
52.5°	634.6	634.6	639.8	650.3	661.7
55°	568.3	567.4	570.0	579.6	586.6
57.5°	505.4	504.5	508.0	514.1	519.4
60°	444.3	442.6	446.1	449.5	456.5
62.5°	390.2	391.9	387.6	392.8	398.0
65°	342.2	340.4	335.2	337.8	343.1
67.5°	301.2	298.5	289.8	291.5	297.7
70°	263.6	258.4	248.8	248.8	253.1
72.5°	229.6	224.3	212.1	213.0	214.7
75°	200.8	192.0	181.6	178.1	182.4
77.5°	169.3	162.4	152.8	150.1	151.9
80°	139.7	134.4	123.1	119.6	122.2
82.5°	110.9	106.5	93.4	90.8	91.7
85°	76.8	75.9	65.5	60.2	62.0
87.5°	41.0	41.9	34.0	30.6	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)