

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: P292105

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292105
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3411.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

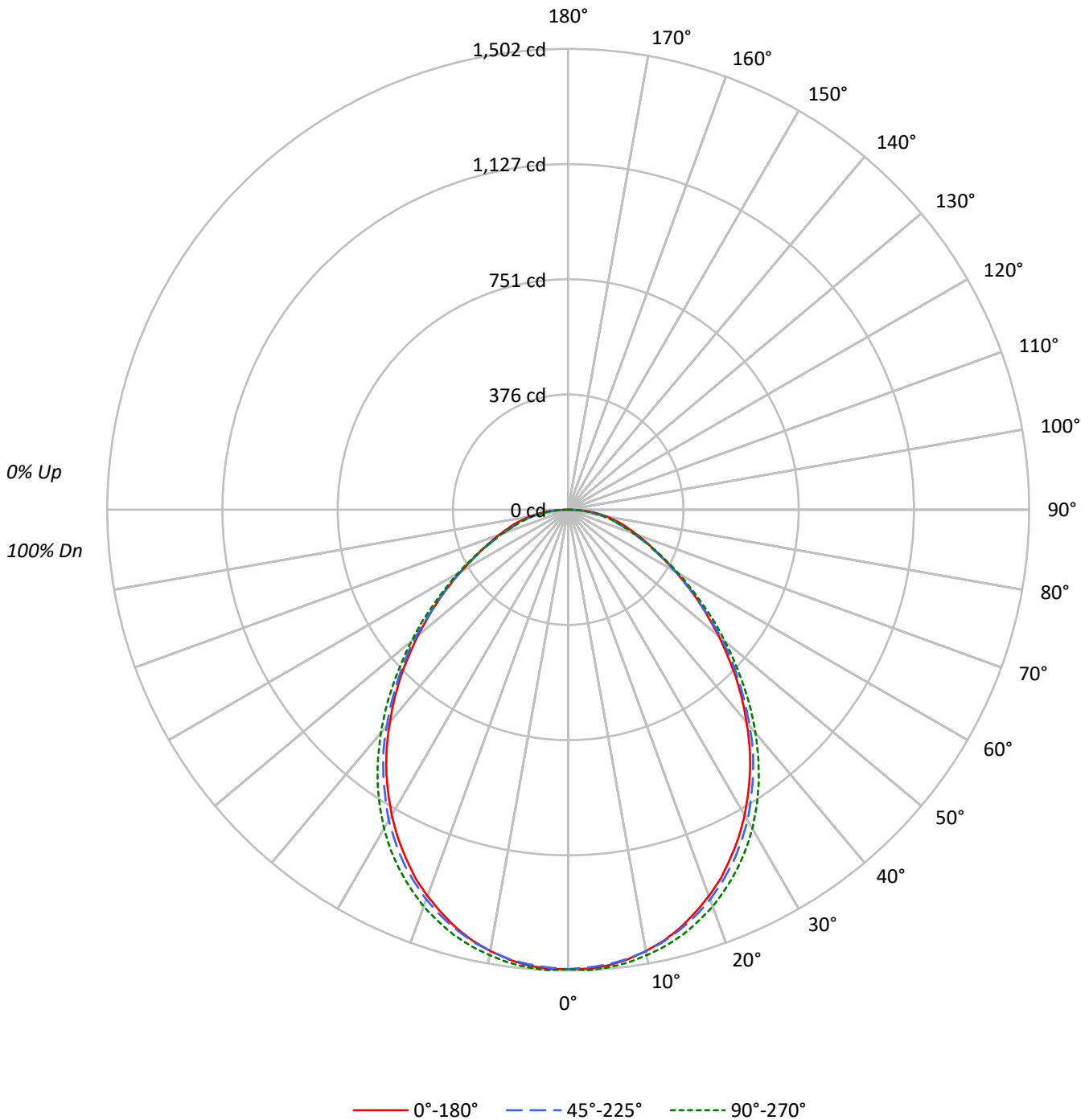
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4029	4029	4029
5°	4028	4017	4045
10°	3990	3992	4029
15°	3929	3942	4000
20°	3837	3871	3941
25°	3718	3769	3852
30°	3571	3632	3728
35°	3395	3450	3557
40°	3175	3228	3334
45°	2940	2985	3072
50°	2677	2720	2790
55°	2417	2425	2495
60°	2168	2176	2228
65°	1976	1935	1980
70°	1880	1775	1806
75°	1892	1711	1720
80°	1962	1729	1717
85°	2149	1834	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	4.1
10°-20°	399.6	11.7
20°-30°	584.9	17.1
30°-40°	657.7	19.3
40°-50°	606.5	17.8
50°-60°	467.4	13.7
60°-70°	308.5	9.0
70°-80°	179.5	5.3
80°-90°	65.4	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°	1126.0	33.0
0°-40°	1783.7	52.3
0°-60°	2857.6	83.8
0°-90°	3411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1491	1488	1487	1494	1497	141
15°	1410	1410	1415	1428	1436	397
25°	1252	1258	1270	1287	1297	576
35°	1034	1038	1050	1072	1083	644
45°	772	773	784	800	807	595
55°	515	514	517	526	532	462
65°	310	309	304	306	311	311
75°	182	174	165	162	165	192
85°	70	69	59	55	56	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.4	1497.4	1497.4	1497.4	1497.4
2.5°	1497.4	1494.3	1493.5	1499.0	1502.2
5°	1491.1	1487.9	1487.2	1494.3	1497.4
7.5°	1478.4	1476.1	1476.9	1484.8	1488.7
10°	1460.2	1459.5	1461.0	1469.7	1474.5
12.5°	1438.9	1438.1	1441.2	1450.7	1457.1
15°	1410.4	1410.4	1415.1	1427.8	1435.7
17.5°	1376.3	1378.7	1385.8	1398.5	1407.2
20°	1339.9	1342.3	1351.8	1366.1	1376.3
22.5°	1299.6	1302.7	1312.2	1329.7	1338.4
25°	1252.1	1258.4	1269.5	1286.9	1297.2
27.5°	1203.0	1210.1	1220.4	1241.8	1251.3
30°	1149.2	1153.9	1169.0	1188.8	1199.9
32.5°	1092.2	1097.0	1109.6	1133.4	1142.9
35°	1033.6	1038.4	1050.3	1071.6	1082.7
37.5°	970.3	974.3	988.5	1005.2	1017.0
40°	903.8	909.4	918.9	938.7	949.0
42.5°	838.9	841.3	851.6	871.4	879.3
45°	772.5	773.3	784.3	800.2	807.3
47.5°	703.6	705.2	718.6	728.1	735.3
50°	639.5	640.3	649.8	658.5	666.4
52.5°	575.4	575.4	580.1	589.6	599.9
55°	515.2	514.4	516.8	525.5	531.9
57.5°	458.3	457.5	460.6	466.2	470.9
60°	402.9	401.3	404.4	407.6	413.9
62.5°	353.8	355.4	351.4	356.2	360.9
65°	310.3	308.7	303.9	306.3	311.0
67.5°	273.1	270.7	262.8	264.3	269.9
70°	239.0	234.3	225.6	225.6	229.5
72.5°	208.2	203.4	192.3	193.1	194.7
75°	182.0	174.1	164.6	161.5	165.4
77.5°	153.5	147.2	138.5	136.1	137.7
80°	126.6	121.9	111.6	108.4	110.8
82.5°	100.5	96.6	84.7	82.3	83.1
85°	69.6	68.9	59.4	54.6	56.2
87.5°	37.2	38.0	30.9	27.7	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)