

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: P292106

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292106
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3434.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

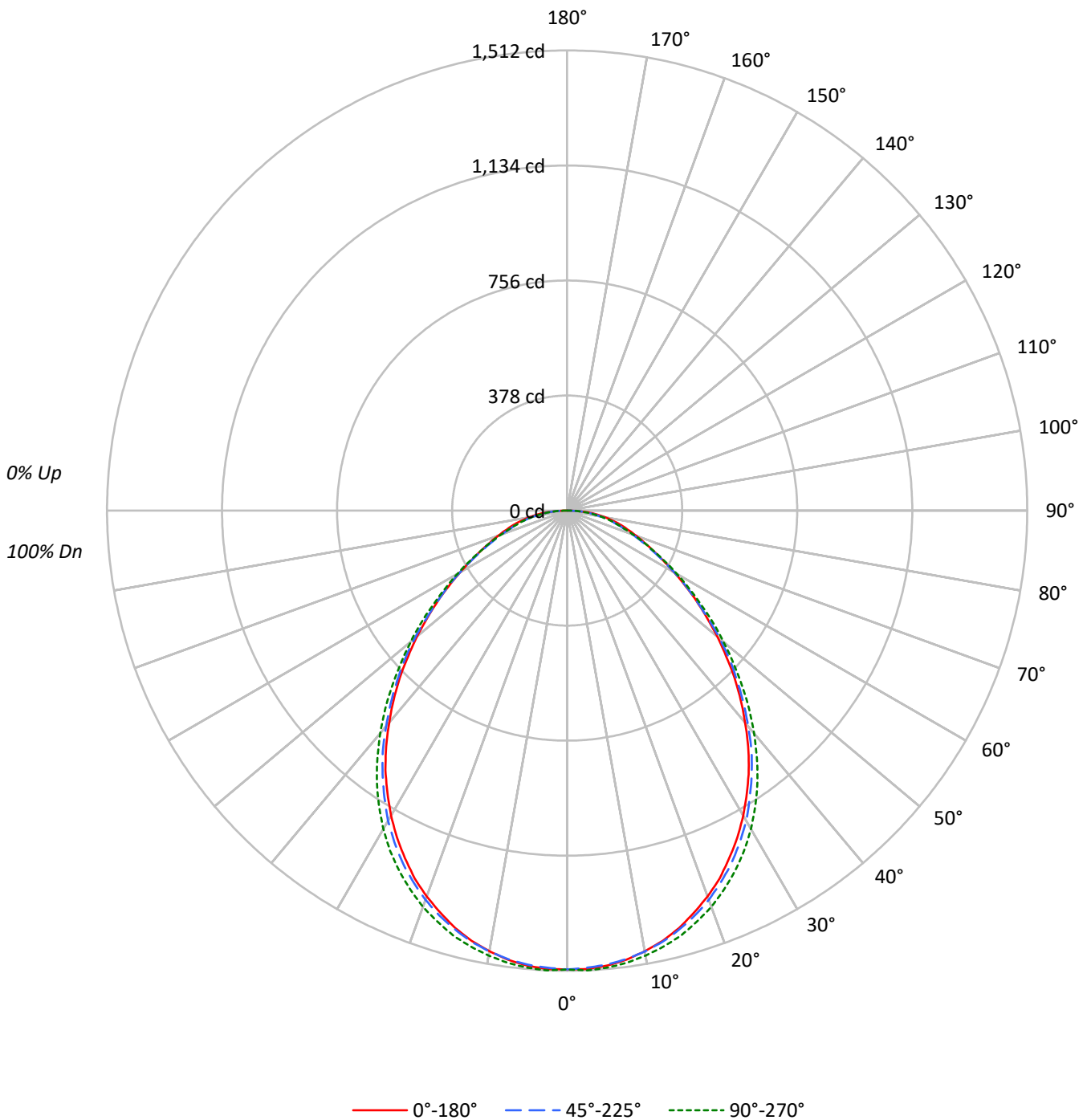
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4057	4057	4057
5°	4055	4044	4072
10°	4017	4019	4056
15°	3956	3969	4027
20°	3863	3897	3968
25°	3743	3795	3878
30°	3595	3657	3753
35°	3418	3473	3581
40°	3196	3250	3356
45°	2960	3005	3093
50°	2695	2739	2809
55°	2434	2441	2512
60°	2183	2192	2243
65°	1989	1948	1994
70°	1893	1787	1818
75°	1906	1723	1731
80°	1976	1740	1729
85°	2164	1846	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.1
10°-20°	402.3	11.7
20°-30°	588.9	17.1
30°-40°	662.1	19.3
40°-50°	610.6	17.8
50°-60°	470.6	13.7
60°-70°	310.5	9.0
70°-80°	180.7	5.3
80°-90°	65.8	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°	1133.6	33.0
0°-40°	1795.7	52.3
0°-60°	2876.9	83.8
0°-90°	3434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1501	1498	1497	1504	1508	142
15°	1420	1420	1425	1437	1445	400
25°	1260	1267	1278	1296	1306	580
35°	1041	1045	1057	1079	1090	649
45°	778	778	790	806	813	599
55°	519	518	520	529	535	465
65°	312	311	306	308	313	313
75°	183	175	166	162	166	193
85°	70	69	60	55	57	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.5	1507.5	1507.5	1507.5	1507.5
2.5°	1507.5	1504.4	1503.6	1509.1	1512.3
5°	1501.2	1498.0	1497.2	1504.4	1507.5
7.5°	1488.4	1486.0	1486.8	1494.8	1498.8
10°	1470.1	1469.3	1470.9	1479.7	1484.4
12.5°	1448.6	1447.8	1451.0	1460.5	1466.9
15°	1419.9	1419.9	1424.7	1437.4	1445.4
17.5°	1385.6	1388.0	1395.2	1407.9	1416.7
20°	1349.0	1351.4	1360.9	1375.3	1385.6
22.5°	1308.3	1311.5	1321.1	1338.6	1347.4
25°	1260.5	1266.9	1278.1	1295.6	1306.0
27.5°	1211.1	1218.3	1228.7	1250.2	1259.7
30°	1156.9	1161.7	1176.9	1196.8	1207.9
32.5°	1099.6	1104.4	1117.1	1141.0	1150.6
35°	1040.6	1045.4	1057.3	1078.9	1090.0
37.5°	976.9	980.9	995.2	1011.9	1023.9
40°	909.9	915.5	925.1	945.0	955.4
42.5°	844.6	847.0	857.4	877.3	885.2
45°	777.7	778.5	789.6	805.6	812.7
47.5°	708.4	709.9	723.5	733.1	740.2
50°	643.8	644.6	654.2	662.9	670.9
52.5°	579.3	579.3	584.1	593.6	604.0
55°	518.7	517.9	520.3	529.1	535.4
57.5°	461.3	460.5	463.7	469.3	474.1
60°	405.6	404.0	407.2	410.4	416.7
62.5°	356.2	357.8	353.8	358.6	363.3
65°	312.3	310.8	306.0	308.4	313.1
67.5°	274.9	272.5	264.5	266.1	271.7
70°	240.6	235.9	227.1	227.1	231.1
72.5°	209.6	204.8	193.6	194.4	196.0
75°	183.3	175.3	165.7	162.5	166.5
77.5°	154.6	148.2	139.4	137.0	138.6
80°	127.5	122.7	112.3	109.2	111.6
82.5°	101.2	97.2	85.3	82.9	83.7
85°	70.1	69.3	59.8	55.0	56.6
87.5°	37.4	38.2	31.1	27.9	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)