

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: P292058

Luminaire Tested: **22GR-LD5-43-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292058
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-LD5-43-F125-UNV-L93050-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: 3701.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

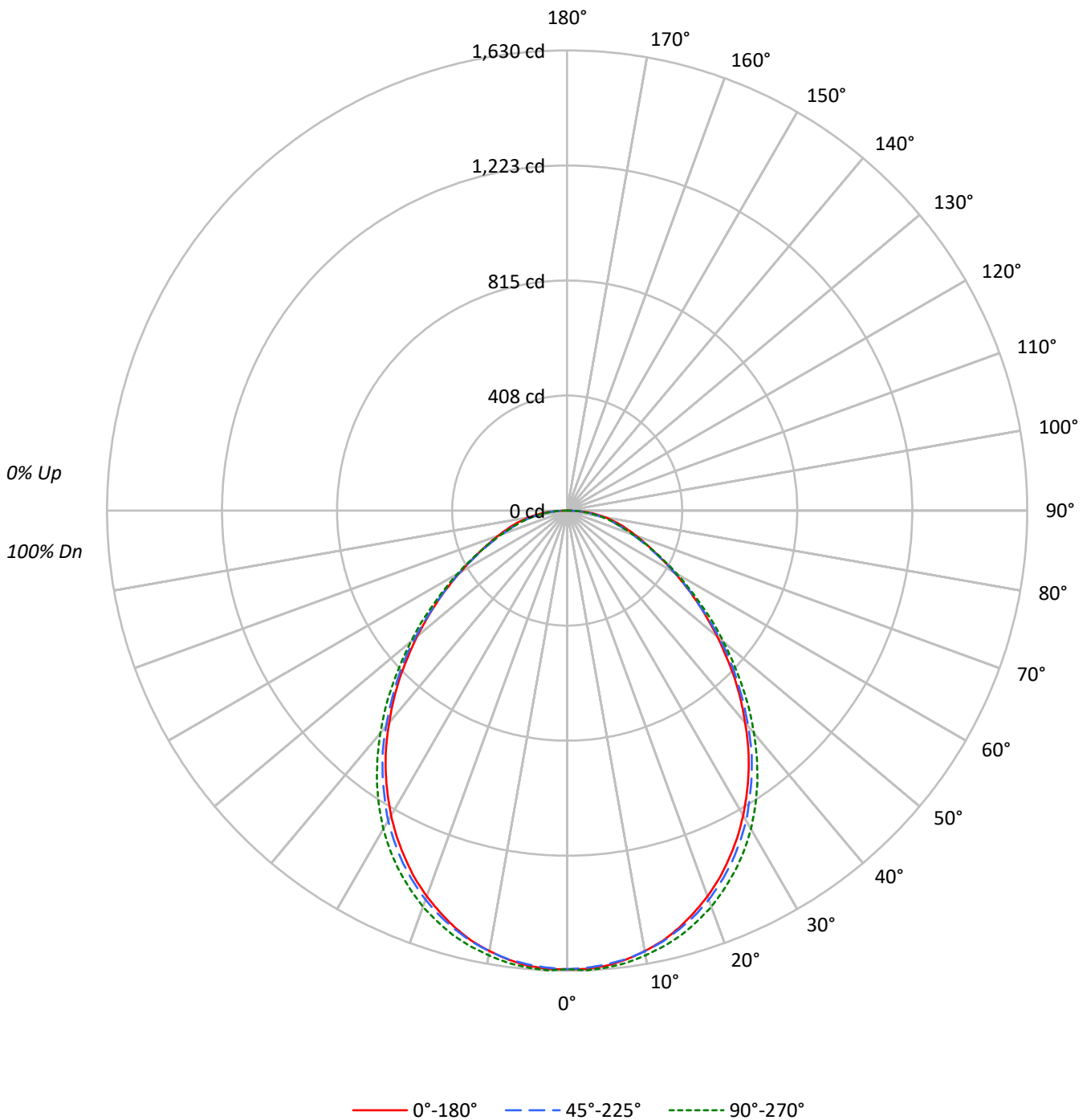
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4372	4372	4372
5°	4370	4359	4389
10°	4329	4332	4372
15°	4263	4277	4340
20°	4164	4200	4277
25°	4034	4090	4179
30°	3874	3941	4045
35°	3684	3744	3859
40°	3445	3502	3617
45°	3189	3239	3333
50°	2905	2951	3027
55°	2623	2631	2708
60°	2352	2362	2417
65°	2143	2100	2149
70°	2040	1925	1959
75°	2053	1857	1866
80°	2129	1877	1863
85°	2334	1988	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	4.1
10°-20°	433.6	11.7
20°-30°	634.7	17.1
30°-40°	713.6	19.3
40°-50°	658.1	17.8
50°-60°	507.2	13.7
60°-70°	334.7	9.0
70°-80°	194.8	5.3
80°-90°	71.0	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°	1221.8	33.0
0°-40°	1935.3	52.3
0°-60°	3100.6	83.8
0°-90°	3701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1618	1614	1614	1621	1625	153
15°	1530	1530	1535	1549	1558	431
25°	1358	1365	1377	1396	1408	625
35°	1122	1127	1140	1163	1175	699
45°	838	839	851	868	876	645
55°	559	558	561	570	577	502
65°	337	335	330	332	338	338
75°	198	189	179	175	180	208
85°	76	75	64	59	61	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.8	1624.8	1624.8	1624.8	1624.8
2.5°	1624.8	1621.3	1620.5	1626.5	1629.9
5°	1617.9	1614.4	1613.6	1621.3	1624.8
7.5°	1604.1	1601.6	1602.4	1611.0	1615.3
10°	1584.4	1583.5	1585.3	1594.7	1599.9
12.5°	1561.2	1560.3	1563.8	1574.1	1581.0
15°	1530.3	1530.3	1535.4	1549.2	1557.8
17.5°	1493.4	1495.9	1503.7	1517.4	1526.9
20°	1453.9	1456.4	1466.7	1482.2	1493.4
22.5°	1410.1	1413.5	1423.8	1442.7	1452.1
25°	1358.5	1365.4	1377.4	1396.3	1407.5
27.5°	1305.3	1313.0	1324.2	1347.4	1357.7
30°	1246.9	1252.1	1268.4	1289.8	1301.9
32.5°	1185.1	1190.2	1204.0	1229.7	1240.0
35°	1121.5	1126.7	1139.6	1162.7	1174.8
37.5°	1052.8	1057.1	1072.6	1090.6	1103.5
40°	980.7	986.7	997.0	1018.5	1029.6
42.5°	910.3	912.9	924.0	945.5	954.1
45°	838.1	839.0	851.0	868.2	875.9
47.5°	763.4	765.1	779.7	790.0	797.8
50°	693.9	694.7	705.0	714.5	723.1
52.5°	624.3	624.3	629.5	639.8	650.9
55°	559.0	558.2	560.8	570.2	577.1
57.5°	497.2	496.4	499.8	505.8	511.0
60°	437.1	435.4	438.8	442.3	449.1
62.5°	383.9	385.6	381.3	386.4	391.6
65°	336.6	334.9	329.8	332.3	337.5
67.5°	296.3	293.7	285.1	286.8	292.8
70°	259.3	254.2	244.7	244.7	249.0
72.5°	225.9	220.7	208.7	209.5	211.3
75°	197.5	188.9	178.6	175.2	179.5
77.5°	166.6	159.7	150.3	147.7	149.4
80°	137.4	132.2	121.1	117.6	120.2
82.5°	109.1	104.8	91.9	89.3	90.2
85°	75.6	74.7	64.4	59.3	61.0
87.5°	40.4	41.2	33.5	30.1	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)