

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: P291963

Luminaire Tested: **22GR-LD5-43-F125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291963
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-L83050-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4615.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

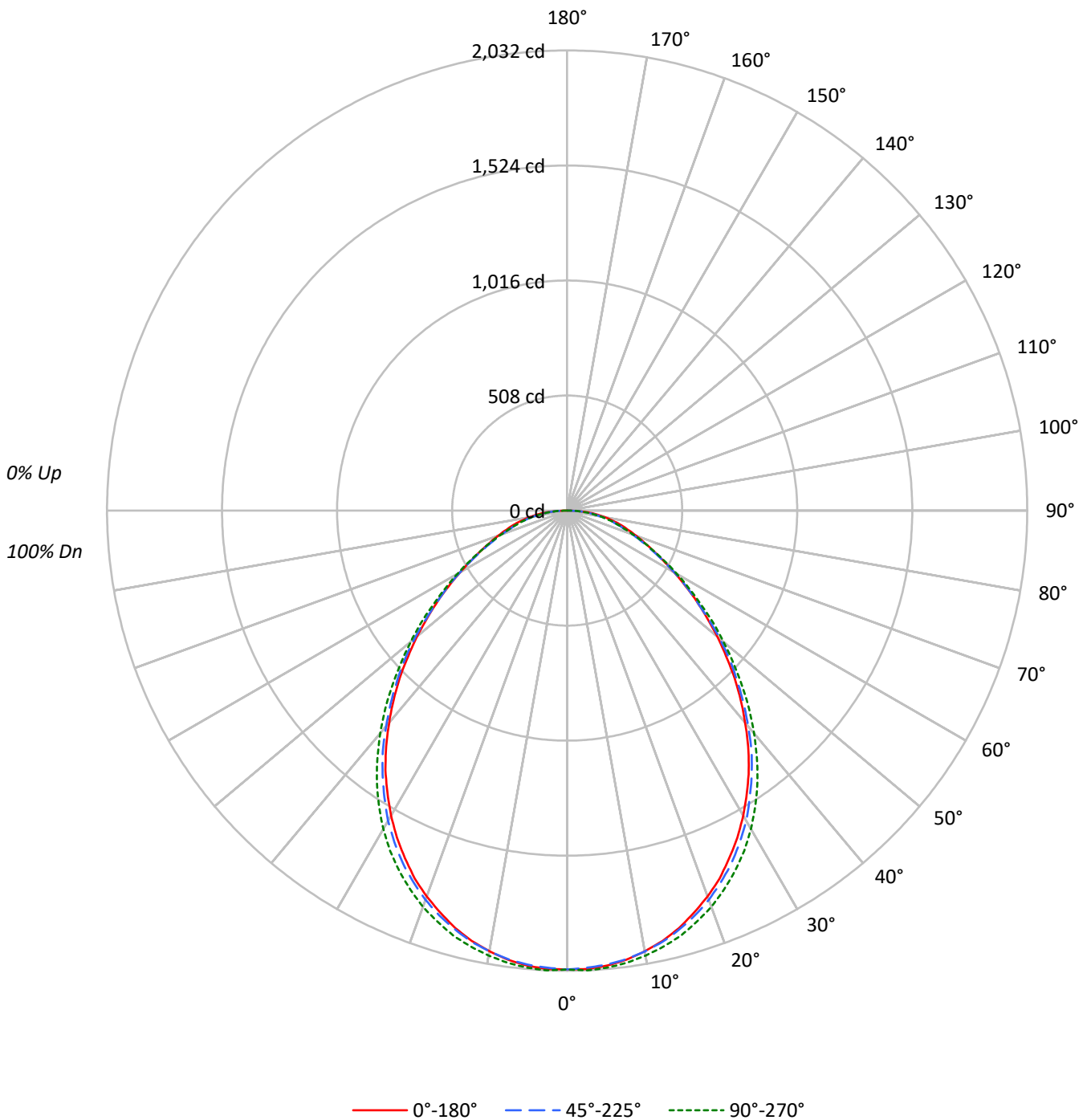
Input Watts (W): 36.921
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5452	5452	5452
5°	5450	5435	5473
10°	5399	5401	5451
15°	5316	5334	5412
20°	5192	5238	5333
25°	5030	5100	5211
30°	4831	4914	5044
35°	4594	4668	4812
40°	4296	4367	4510
45°	3977	4039	4156
50°	3622	3680	3774
55°	3270	3280	3376
60°	2934	2945	3014
65°	2673	2618	2679
70°	2544	2401	2443
75°	2561	2315	2327
80°	2655	2340	2323
85°	2908	2479	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	4.1
10°-20°	540.7	11.7
20°-30°	791.4	17.1
30°-40°	889.8	19.3
40°-50°	820.6	17.8
50°-60°	632.4	13.7
60°-70°	417.3	9.0
70°-80°	242.9	5.3
80°-90°	88.5	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°	1523.5	33.0
0°-40°	2413.3	52.3
0°-60°	3866.3	83.8
0°-90°	4615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2017	2013	2012	2022	2026	191
15°	1908	1908	1915	1932	1942	537
25°	1694	1703	1718	1741	1755	779
35°	1398	1405	1421	1450	1465	872
45°	1045	1046	1061	1083	1092	805
55°	697	696	699	711	720	625
65°	420	418	411	414	421	421
75°	246	236	223	218	224	259
85°	94	93	80	74	76	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2026.0	2021.7	2020.7	2028.1	2032.4
5°	2017.4	2013.2	2012.1	2021.7	2026.0
7.5°	2000.3	1997.1	1998.2	2008.9	2014.2
10°	1975.7	1974.6	1976.7	1988.5	1995.0
12.5°	1946.8	1945.7	1950.0	1962.8	1971.4
15°	1908.2	1908.2	1914.6	1931.8	1942.5
17.5°	1862.2	1865.4	1875.0	1892.2	1903.9
20°	1812.9	1816.1	1829.0	1848.2	1862.2
22.5°	1758.3	1762.6	1775.4	1799.0	1810.8
25°	1694.0	1702.6	1717.6	1741.2	1755.1
27.5°	1627.7	1637.3	1651.2	1680.1	1693.0
30°	1554.8	1561.3	1581.6	1608.4	1623.4
32.5°	1477.7	1484.2	1501.3	1533.4	1546.3
35°	1398.5	1404.9	1421.0	1449.9	1464.9
37.5°	1312.8	1318.2	1337.5	1359.9	1376.0
40°	1222.9	1230.4	1243.2	1270.0	1283.9
42.5°	1135.1	1138.3	1152.2	1179.0	1189.7
45°	1045.1	1046.2	1061.2	1082.6	1092.2
47.5°	952.0	954.1	972.3	985.2	994.8
50°	865.2	866.3	879.1	890.9	901.6
52.5°	778.5	778.5	784.9	797.8	811.7
55°	697.1	696.0	699.2	711.0	719.6
57.5°	620.0	618.9	623.2	630.7	637.1
60°	545.1	542.9	547.2	551.5	560.0
62.5°	478.7	480.8	475.4	481.9	488.3
65°	419.8	417.6	411.2	414.4	420.8
67.5°	369.4	366.2	355.5	357.7	365.2
70°	323.4	317.0	305.2	305.2	310.5
72.5°	281.6	275.2	260.2	261.3	263.4
75°	246.3	235.6	222.7	218.4	223.8
77.5°	207.7	199.2	187.4	184.2	186.3
80°	171.3	164.9	151.0	146.7	149.9
82.5°	136.0	130.6	114.6	111.4	112.4
85°	94.2	93.2	80.3	73.9	76.0
87.5°	50.3	51.4	41.8	37.5	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)