

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: P291926

Luminaire Tested: **22GR-LD5-43-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4087.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

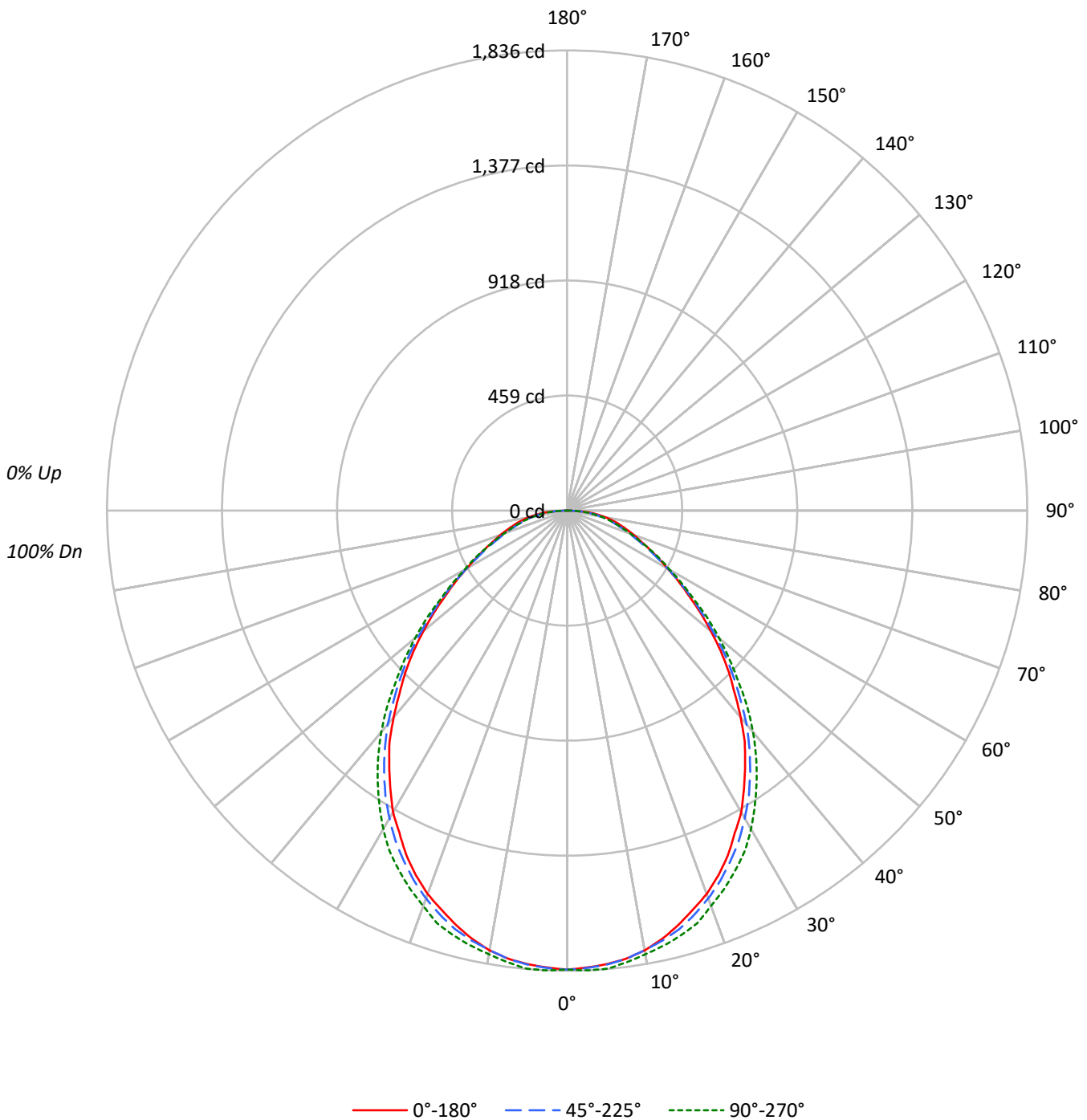
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																												
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73																												
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																												
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																												
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48																												
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43																												
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38																												
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34																												
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																												
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4929	4929	4929
5°	4907	4912	4957
10°	4868	4866	4912
15°	4770	4817	4888
20°	4661	4715	4807
25°	4507	4579	4708
30°	4317	4405	4559
35°	4065	4182	4330
40°	3782	3911	4053
45°	3473	3572	3683
50°	3132	3211	3313
55°	2779	2845	2893
60°	2491	2496	2546
65°	2295	2218	2295
70°	2216	2054	2113
75°	2254	2011	2049
80°	2430	2109	2109
85°	2695	2232	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	4.2
10°-20°	487.3	11.9
20°-30°	711.2	17.4
30°-40°	796.2	19.5
40°-50°	724.6	17.7
50°-60°	545.4	13.3
60°-70°	355.9	8.7
70°-80°	213.5	5.2
80°-90°	80.1	2.0
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°	1371.2	33.6
0°-40°	2167.5	53.0
0°-60°	3437.5	84.1
0°-90°	4087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1816	1814	1818	1825	1835	172
15°	1712	1714	1729	1743	1754	482
25°	1518	1523	1542	1570	1586	697
35°	1237	1248	1273	1303	1318	773
45°	912	922	939	958	968	703
55°	592	601	606	615	617	535
65°	360	357	348	354	360	361
75°	217	209	193	194	197	230
85°	87	84	72	68	71	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.5	1831.5	1831.5	1831.5	1831.5
2.5°	1824.9	1824.0	1826.8	1831.5	1836.2
5°	1816.5	1813.6	1818.3	1824.9	1835.2
7.5°	1803.3	1803.3	1803.3	1815.5	1817.4
10°	1781.7	1783.6	1780.8	1793.0	1797.7
12.5°	1750.7	1751.7	1757.3	1769.5	1778.0
15°	1712.3	1714.1	1729.2	1743.2	1754.5
17.5°	1669.1	1675.6	1689.7	1712.3	1726.3
20°	1627.8	1635.3	1646.5	1670.9	1678.5
22.5°	1575.2	1583.6	1597.7	1619.3	1635.3
25°	1517.9	1522.6	1542.3	1570.5	1585.5
27.5°	1449.4	1459.7	1484.1	1513.2	1533.9
30°	1389.3	1395.0	1417.5	1451.3	1467.2
32.5°	1313.3	1330.2	1349.0	1379.0	1394.0
35°	1237.3	1248.5	1272.9	1303.0	1318.0
37.5°	1164.0	1170.6	1195.0	1220.4	1239.1
40°	1076.7	1088.9	1113.3	1140.6	1153.7
42.5°	989.4	1007.3	1023.2	1050.4	1064.5
45°	912.5	921.8	938.7	958.4	967.8
47.5°	831.7	836.4	856.1	868.3	878.7
50°	748.2	753.8	766.9	779.2	791.4
52.5°	671.2	675.9	684.3	695.6	707.8
55°	592.3	600.8	606.4	614.9	616.7
57.5°	528.5	527.6	531.3	537.9	544.5
60°	462.8	464.7	463.7	470.3	473.1
62.5°	408.3	407.4	401.8	411.2	418.7
65°	360.5	356.7	348.3	353.9	360.5
67.5°	316.4	314.5	300.4	305.1	310.7
70°	281.6	275.0	261.0	263.8	268.5
72.5°	247.8	240.3	226.2	227.2	230.0
75°	216.8	209.3	193.4	194.3	197.1
77.5°	187.7	178.4	164.3	162.4	164.3
80°	156.8	148.3	136.1	130.5	136.1
82.5°	124.9	120.2	106.1	100.4	102.3
85°	87.3	84.5	72.3	68.5	71.3
87.5°	40.4	43.2	36.6	33.8	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)