

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: P291950

Luminaire Tested: **22GR-LD5-36-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291950
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-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3618.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

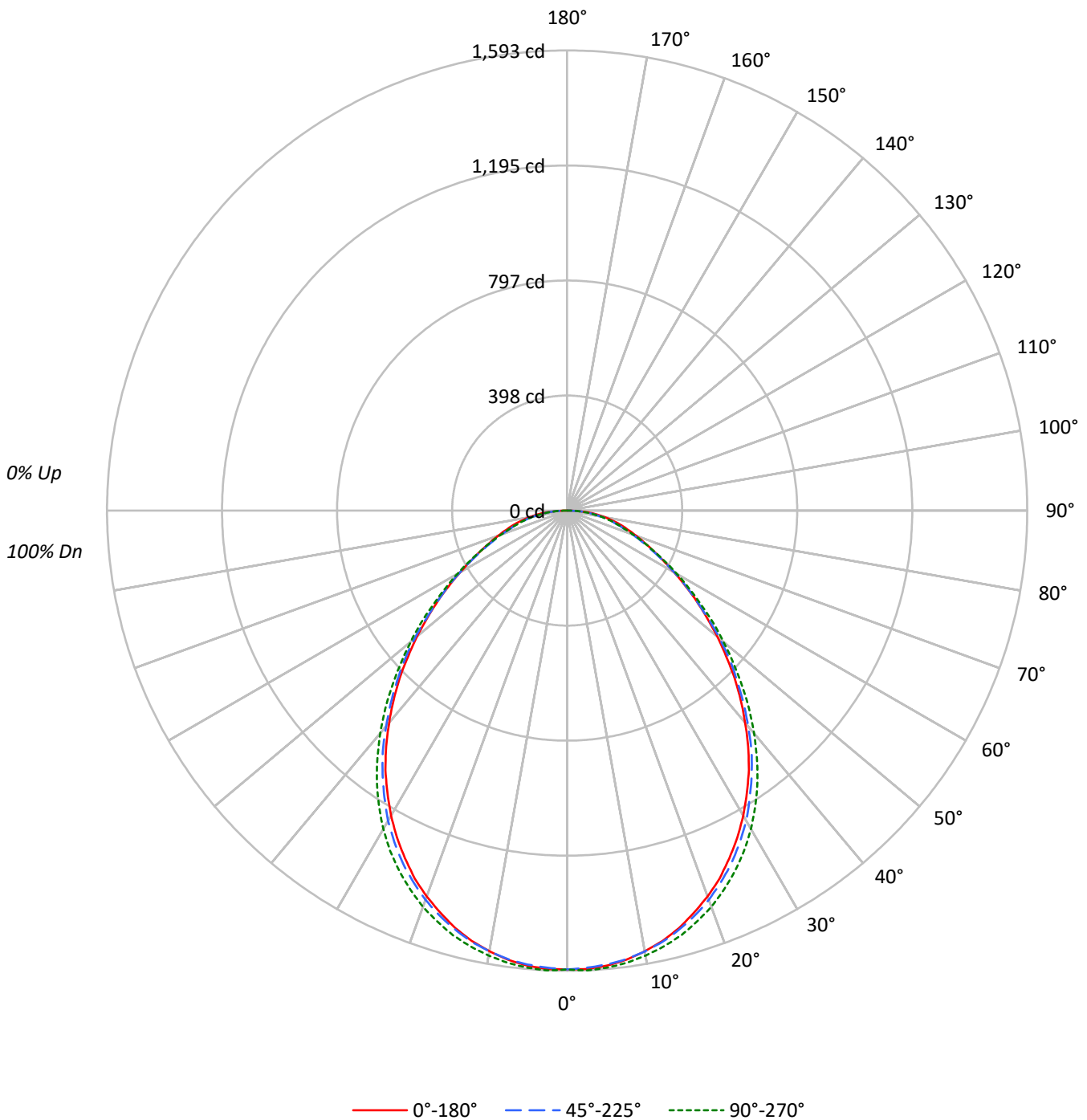
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4274	4274	4274
5°	4272	4261	4290
10°	4232	4235	4274
15°	4168	4182	4242
20°	4070	4106	4181
25°	3943	3998	4085
30°	3787	3853	3955
35°	3602	3660	3773
40°	3368	3424	3536
45°	3118	3166	3259
50°	2840	2885	2959
55°	2564	2572	2647
60°	2300	2309	2363
65°	2096	2053	2101
70°	1995	1883	1916
75°	2008	1815	1825
80°	2081	1835	1821
85°	2282	1945	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	4.1
10°-20°	423.9	11.7
20°-30°	620.4	17.1
30°-40°	697.6	19.3
40°-50°	643.3	17.8
50°-60°	495.8	13.7
60°-70°	327.2	9.0
70°-80°	190.4	5.3
80°-90°	69.4	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°	1194.4	33.0
0°-40°	1891.9	52.3
0°-60°	3031.0	83.8
0°-90°	3618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1582	1578	1577	1585	1588	150
15°	1496	1496	1501	1514	1523	421
25°	1328	1335	1346	1365	1376	611
35°	1096	1101	1114	1137	1148	684
45°	819	820	832	849	856	631
55°	546	546	548	557	564	490
65°	329	327	322	325	330	330
75°	193	185	175	171	176	203
85°	74	73	63	58	60	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1588.3	1585.0	1584.1	1590.0	1593.4
5°	1581.6	1578.2	1577.4	1585.0	1588.3
7.5°	1568.2	1565.7	1566.5	1574.9	1579.1
10°	1548.9	1548.0	1549.7	1558.9	1564.0
12.5°	1526.2	1525.4	1528.7	1538.8	1545.5
15°	1496.0	1496.0	1501.0	1514.4	1522.8
17.5°	1459.9	1462.4	1469.9	1483.4	1492.6
20°	1421.3	1423.8	1433.9	1449.0	1459.9
22.5°	1378.4	1381.8	1391.9	1410.3	1419.6
25°	1328.1	1334.8	1346.5	1365.0	1375.9
27.5°	1276.0	1283.6	1294.5	1317.2	1327.2
30°	1218.9	1224.0	1239.9	1260.9	1272.7
32.5°	1158.5	1163.5	1177.0	1202.2	1212.2
35°	1096.4	1101.4	1114.0	1136.7	1148.4
37.5°	1029.2	1033.4	1048.5	1066.2	1078.7
40°	958.7	964.6	974.6	995.6	1006.5
42.5°	889.9	892.4	903.3	924.3	932.7
45°	819.3	820.2	831.9	848.7	856.3
47.5°	746.3	748.0	762.3	772.3	779.9
50°	678.3	679.1	689.2	698.5	706.9
52.5°	610.3	610.3	615.3	625.4	636.3
55°	546.5	545.7	548.2	557.4	564.1
57.5°	486.1	485.2	488.6	494.5	499.5
60°	427.3	425.6	429.0	432.3	439.1
62.5°	375.3	376.9	372.7	377.8	382.8
65°	329.1	327.4	322.4	324.9	329.9
67.5°	289.6	287.1	278.7	280.4	286.3
70°	253.5	248.5	239.3	239.3	243.5
72.5°	220.8	215.7	204.0	204.8	206.5
75°	193.1	184.7	174.6	171.3	175.5
77.5°	162.9	156.1	146.9	144.4	146.1
80°	134.3	129.3	118.4	115.0	117.5
82.5°	106.6	102.4	89.8	87.3	88.1
85°	73.9	73.0	63.0	57.9	59.6
87.5°	39.5	40.3	32.7	29.4	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)