

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: P291910

Luminaire Tested: **22GR-LD5-36-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291910
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-LD5-36-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH F1 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): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

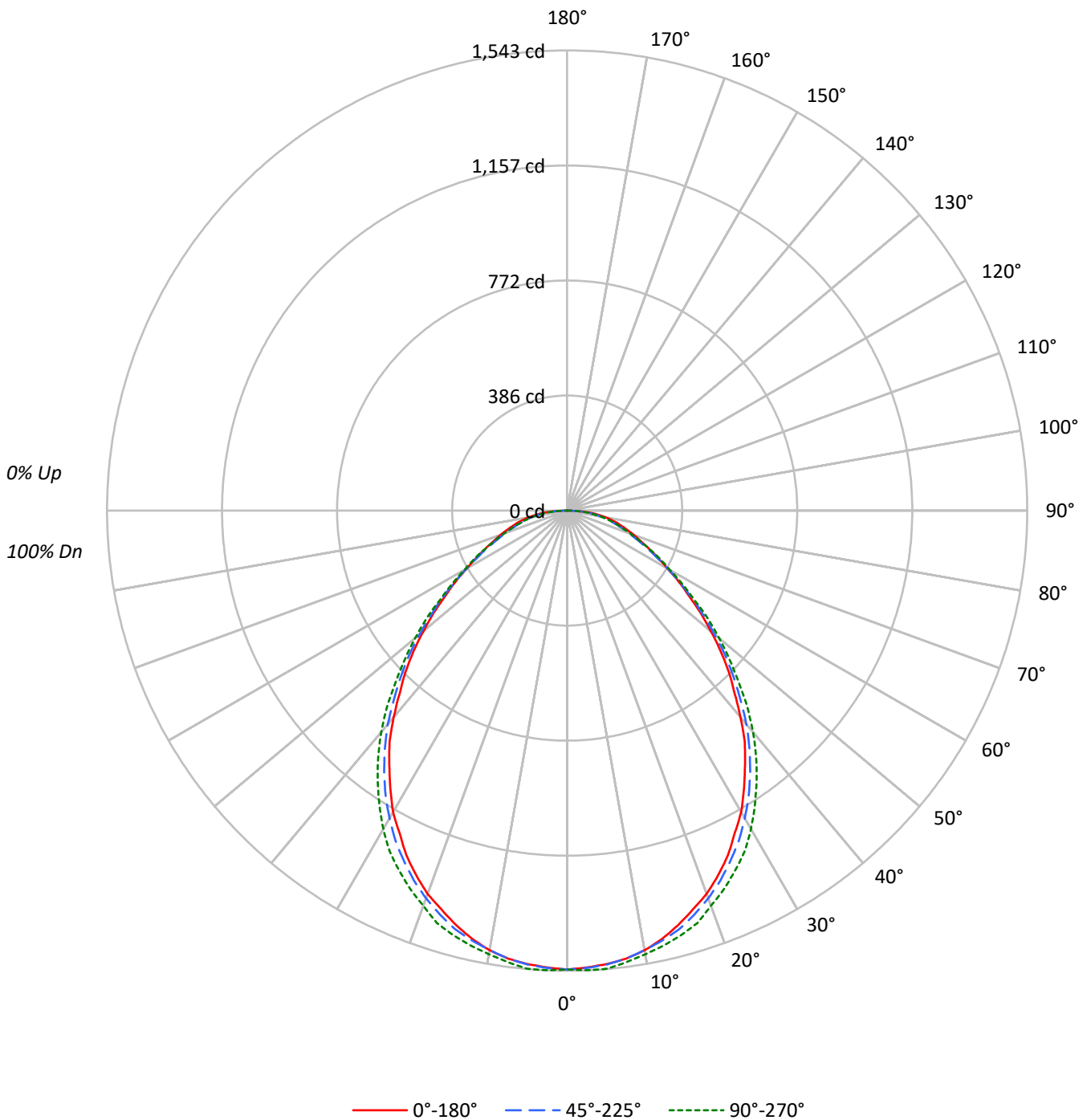
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4141	4141	4141
5°	4123	4127	4165
10°	4091	4089	4127
15°	4008	4048	4107
20°	3917	3962	4039
25°	3787	3848	3956
30°	3627	3701	3831
35°	3415	3513	3638
40°	3178	3286	3405
45°	2918	3001	3095
50°	2632	2698	2784
55°	2335	2390	2431
60°	2093	2097	2139
65°	1929	1863	1929
70°	1862	1725	1775
75°	1894	1690	1722
80°	2041	1773	1773
85°	2266	1874	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.2
10°-20°	409.4	11.9
20°-30°	597.6	17.4
30°-40°	669.0	19.5
40°-50°	608.9	17.7
50°-60°	458.3	13.3
60°-70°	299.1	8.7
70°-80°	179.4	5.2
80°-90°	67.3	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°	1152.2	33.6
0°-40°	1821.2	53.0
0°-60°	2888.3	84.1
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°	1539	1539	1539	1539	1539	
5°	1526	1524	1528	1533	1542	145
15°	1439	1440	1453	1465	1474	405
25°	1275	1279	1296	1320	1332	586
35°	1040	1049	1070	1095	1107	650
45°	767	775	789	805	813	590
55°	498	505	510	517	518	450
65°	303	300	293	297	303	303
75°	182	176	162	163	166	193
85°	73	71	61	58	60	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.8	1538.8	1538.8	1538.8	1538.8
2.5°	1533.3	1532.5	1534.9	1538.8	1542.8
5°	1526.2	1523.9	1527.8	1533.3	1542.0
7.5°	1515.2	1515.2	1515.2	1525.4	1527.0
10°	1497.0	1498.6	1496.3	1506.5	1510.5
12.5°	1471.0	1471.8	1476.5	1486.8	1493.9
15°	1438.7	1440.3	1452.9	1464.7	1474.2
17.5°	1402.4	1407.9	1419.7	1438.7	1450.5
20°	1367.7	1374.0	1383.5	1404.0	1410.3
22.5°	1323.5	1330.6	1342.5	1360.6	1374.0
25°	1275.4	1279.4	1295.9	1319.6	1332.2
27.5°	1217.8	1226.5	1247.0	1271.5	1288.8
30°	1167.3	1172.1	1191.0	1219.4	1232.8
32.5°	1103.5	1117.7	1133.4	1158.7	1171.3
35°	1039.6	1049.0	1069.5	1094.8	1107.4
37.5°	978.0	983.6	1004.1	1025.4	1041.1
40°	904.7	914.9	935.5	958.3	969.4
42.5°	831.3	846.3	859.7	882.6	894.4
45°	766.7	774.6	788.7	805.3	813.2
47.5°	698.8	702.8	719.3	729.6	738.3
50°	628.6	633.4	644.4	654.7	664.9
52.5°	564.0	567.9	575.0	584.5	594.7
55°	497.7	504.8	509.5	516.6	518.2
57.5°	444.1	443.3	446.4	452.0	457.5
60°	388.9	390.4	389.6	395.2	397.5
62.5°	343.1	342.3	337.6	345.5	351.8
65°	302.9	299.7	292.6	297.4	302.9
67.5°	265.8	264.2	252.4	256.3	261.1
70°	236.6	231.1	219.3	221.6	225.6
72.5°	208.2	201.9	190.1	190.9	193.2
75°	182.2	175.9	162.5	163.3	165.6
77.5°	157.7	149.9	138.0	136.5	138.0
80°	131.7	124.6	114.4	109.6	114.4
82.5°	104.9	101.0	89.1	84.4	86.0
85°	73.4	71.0	60.7	57.6	59.9
87.5°	33.9	36.3	30.8	28.4	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)