

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: P291812

Luminaire Tested: **22GR-LD5-36-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291812
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-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

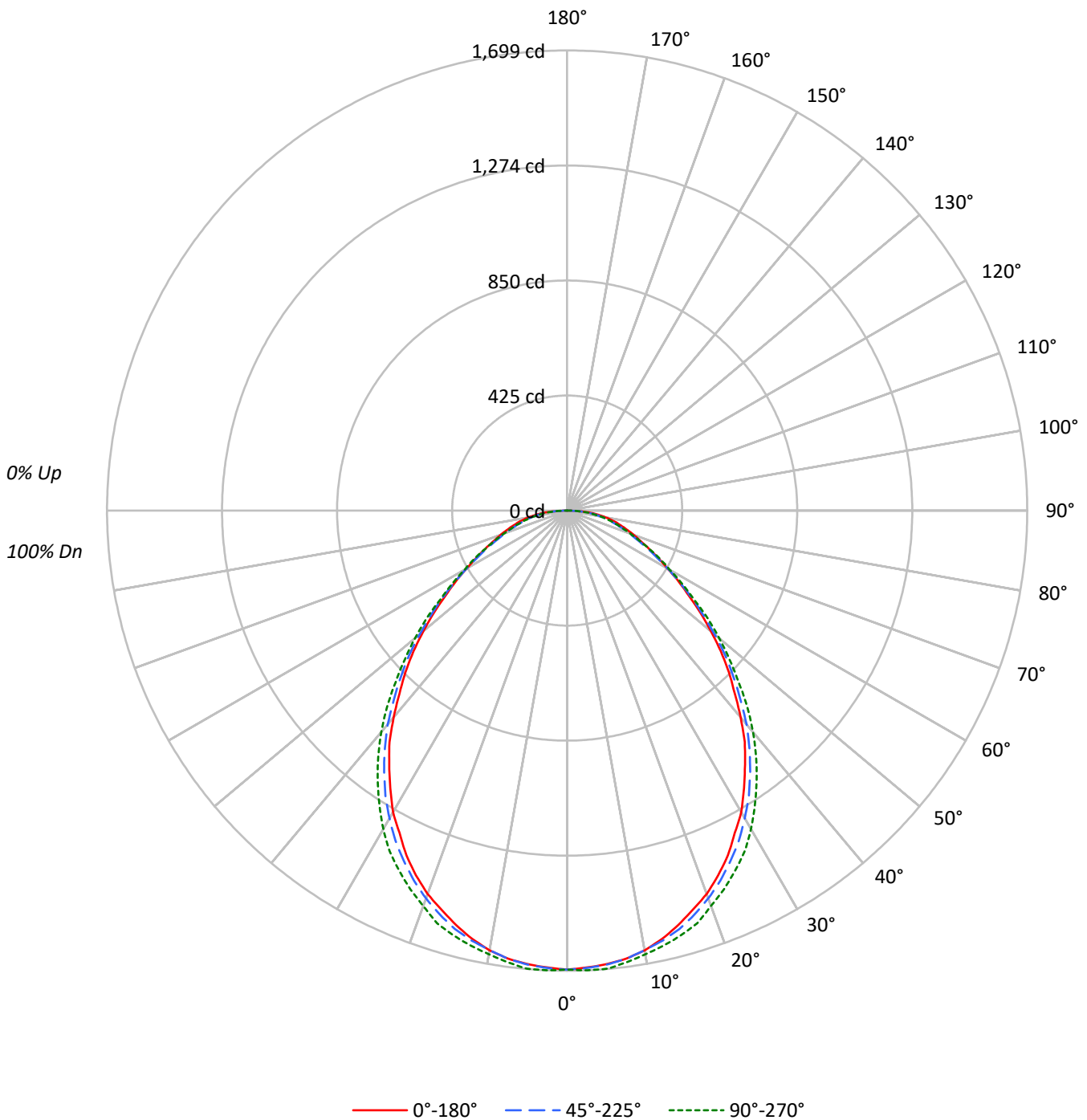
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4561	4561	4561
5°	4541	4545	4588
10°	4505	4503	4545
15°	4414	4458	4523
20°	4314	4363	4448
25°	4171	4238	4356
30°	3995	4076	4219
35°	3761	3869	4006
40°	3500	3619	3750
45°	3213	3306	3408
50°	2898	2971	3066
55°	2571	2633	2677
60°	2305	2309	2356
65°	2124	2052	2124
70°	2050	1900	1954
75°	2087	1860	1896
80°	2249	1953	1953
85°	2495	2066	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	4.2
10°-20°	450.9	11.9
20°-30°	658.1	17.4
30°-40°	736.8	19.5
40°-50°	670.6	17.7
50°-60°	504.7	13.3
60°-70°	329.4	8.7
70°-80°	197.5	5.2
80°-90°	74.1	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°	1268.9	33.6
0°-40°	2005.7	53.0
0°-60°	3181.0	84.1
0°-90°	3782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1681	1678	1683	1689	1698	159
15°	1584	1586	1600	1613	1624	446
25°	1405	1409	1427	1453	1467	645
35°	1145	1155	1178	1206	1220	716
45°	844	853	869	887	896	650
55°	548	556	561	569	571	495
65°	334	330	322	328	334	334
75°	201	194	179	180	182	213
85°	81	78	67	63	66	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1688.7	1687.8	1690.5	1694.8	1699.1
5°	1680.9	1678.3	1682.6	1688.7	1698.3
7.5°	1668.7	1668.7	1668.7	1680.0	1681.8
10°	1648.8	1650.5	1647.9	1659.2	1663.5
12.5°	1620.1	1621.0	1626.2	1637.5	1645.3
15°	1584.5	1586.2	1600.1	1613.1	1623.6
17.5°	1544.5	1550.6	1563.6	1584.5	1597.5
20°	1506.3	1513.2	1523.7	1546.3	1553.2
22.5°	1457.6	1465.5	1478.5	1498.5	1513.2
25°	1404.7	1409.0	1427.2	1453.3	1467.2
27.5°	1341.2	1350.8	1373.4	1400.3	1419.4
30°	1285.6	1290.9	1311.7	1343.0	1357.7
32.5°	1215.3	1230.9	1248.3	1276.1	1290.0
35°	1144.9	1155.3	1177.9	1205.7	1219.6
37.5°	1077.2	1083.2	1105.8	1129.3	1146.7
40°	996.4	1007.7	1030.3	1055.4	1067.6
42.5°	915.6	932.1	946.9	972.1	985.1
45°	844.4	853.0	868.7	886.9	895.6
47.5°	769.7	774.0	792.2	803.5	813.1
50°	692.3	697.6	709.7	721.0	732.3
52.5°	621.1	625.5	633.3	643.7	655.0
55°	548.1	556.0	561.2	569.0	570.7
57.5°	489.1	488.2	491.7	497.8	503.8
60°	428.3	430.0	429.1	435.2	437.8
62.5°	377.9	377.0	371.8	380.5	387.4
65°	333.6	330.1	322.3	327.5	333.6
67.5°	292.7	291.0	278.0	282.3	287.5
70°	260.6	254.5	241.5	244.1	248.4
72.5°	229.3	222.4	209.4	210.2	212.8
75°	200.7	193.7	178.9	179.8	182.4
77.5°	173.7	165.0	152.0	150.3	152.0
80°	145.1	137.3	126.0	120.7	126.0
82.5°	115.5	111.2	98.2	92.9	94.7
85°	80.8	78.2	66.9	63.4	66.0
87.5°	37.4	40.0	33.9	31.3	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)