

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: P292812

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1476.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

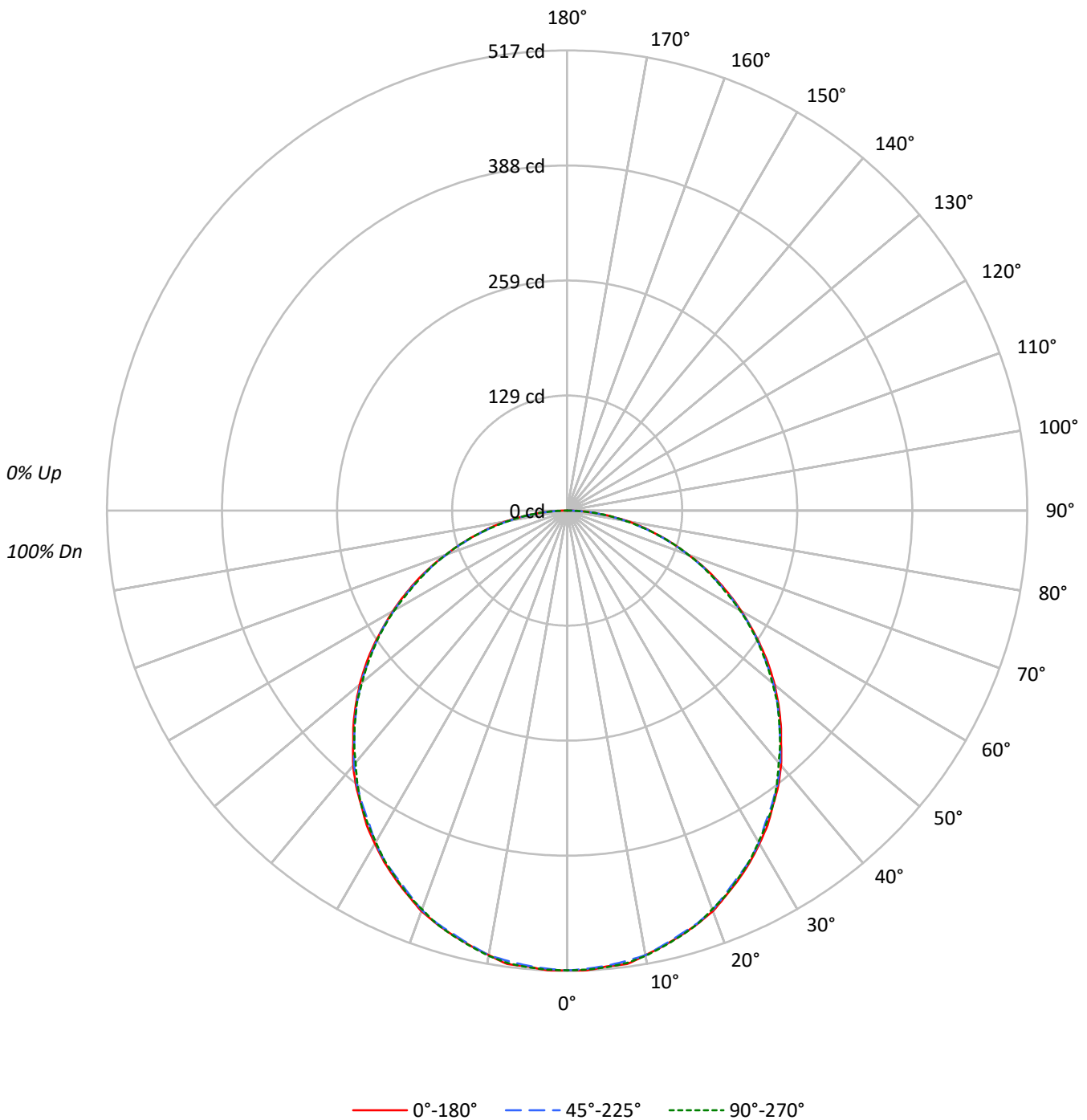
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1390	1390	1390
5°	1388	1386	1391
10°	1386	1386	1388
15°	1377	1373	1378
20°	1371	1368	1365
25°	1356	1349	1352
30°	1343	1339	1336
35°	1326	1320	1326
40°	1314	1308	1299
45°	1292	1283	1283
50°	1274	1266	1259
55°	1247	1238	1236
60°	1217	1210	1206
65°	1187	1173	1167
70°	1139	1135	1139
75°	1099	1085	1095
80°	1088	1034	1027
85°	963	936	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.3
10°-20°	139.4	9.4
20°-30°	210.0	14.2
30°-40°	252.0	17.1
40°-50°	260.7	17.7
50°-60°	236.3	16.0
60°-70°	183.2	12.4
70°-80°	111.2	7.5
80°-90°	34.4	2.3
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°	398.3	27.0
0°-40°	650.3	44.1
0°-60°	1147.3	77.7
0°-90°	1476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	514	514	513	514	515	49
15°	494	494	493	495	494	140
25°	457	456	454	456	456	211
35°	404	404	402	402	404	253
45°	339	339	337	337	337	262
55°	266	265	264	264	264	238
65°	186	186	184	185	183	184
75°	106	105	104	104	105	113
85°	31	31	30	30	31	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.6	516.6	516.6	516.6	516.6
2.5°	517.0	514.9	515.3	516.2	516.2
5°	514.0	514.0	513.1	514.4	514.9
7.5°	514.0	511.8	510.5	511.8	512.7
10°	507.1	506.2	507.1	506.6	507.9
12.5°	501.0	500.1	500.1	501.4	501.4
15°	494.1	494.1	492.8	494.9	494.5
17.5°	487.1	487.1	486.3	486.3	487.1
20°	478.9	476.7	477.6	477.2	476.7
22.5°	467.6	466.3	465.5	466.8	467.2
25°	456.8	455.9	454.2	455.9	455.5
27.5°	445.1	444.2	443.8	442.9	443.8
30°	432.1	431.2	430.8	429.9	429.9
32.5°	419.1	417.4	415.2	417.4	416.9
35°	403.5	403.5	401.8	402.2	403.5
37.5°	389.6	388.8	387.9	386.6	387.0
40°	374.0	372.7	372.3	371.4	369.7
42.5°	355.8	355.8	354.1	354.5	354.1
45°	339.4	338.9	337.2	337.2	337.2
47.5°	322.0	321.6	320.3	319.4	320.3
50°	304.2	302.5	302.5	301.2	300.8
52.5°	285.6	284.3	282.6	283.0	282.1
55°	265.7	265.2	263.9	263.5	263.5
57.5°	245.7	246.2	245.3	243.6	244.0
60°	226.2	225.8	224.9	224.1	224.1
62.5°	206.3	206.3	204.6	204.6	202.8
65°	186.4	186.4	184.2	185.1	183.3
67.5°	166.4	166.0	164.7	164.3	164.7
70°	144.8	145.2	144.3	144.3	144.8
72.5°	125.3	124.8	124.4	124.4	125.3
75°	105.7	105.3	104.4	104.4	105.3
77.5°	88.0	85.8	85.4	86.2	84.9
80°	70.2	67.2	66.7	66.3	66.3
82.5°	49.4	48.1	48.5	48.1	49.0
85°	31.2	30.8	30.3	30.3	30.8
87.5°	14.7	13.9	13.9	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)