

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: P292855

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292855
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-LD5-24-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1597.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

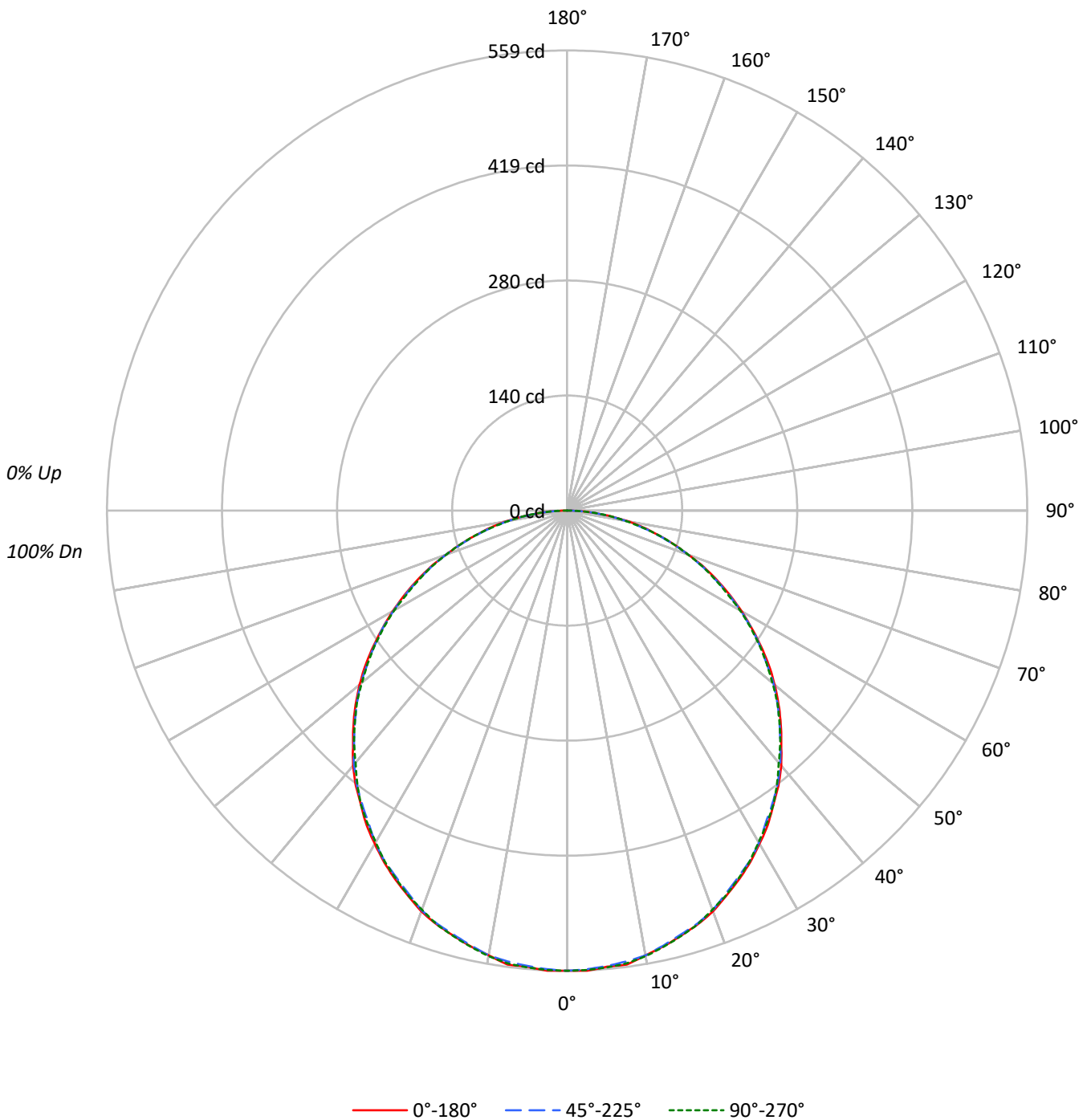
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1504	1504	1504
5°	1502	1500	1505
10°	1499	1499	1502
15°	1489	1485	1490
20°	1484	1480	1477
25°	1468	1459	1463
30°	1453	1448	1446
35°	1434	1428	1434
40°	1422	1415	1405
45°	1397	1388	1388
50°	1378	1370	1362
55°	1349	1340	1338
60°	1318	1310	1305
65°	1284	1269	1263
70°	1232	1229	1232
75°	1189	1175	1185
80°	1178	1119	1111
85°	1044	1013	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.3
10°-20°	150.9	9.4
20°-30°	227.2	14.2
30°-40°	272.6	17.1
40°-50°	282.1	17.7
50°-60°	255.6	16.0
60°-70°	198.2	12.4
70°-80°	120.3	7.5
80°-90°	37.2	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°	430.9	27.0
0°-40°	703.6	44.1
0°-60°	1241.3	77.7
0°-90°	1597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	556	556	555	557	557	53
15°	535	535	533	536	535	151
25°	494	493	491	493	493	228
35°	437	437	435	435	437	274
45°	367	367	365	365	365	283
55°	288	287	286	285	285	257
65°	202	202	199	200	198	199
75°	114	114	113	113	114	122
85°	34	33	33	33	33	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.0	559.0	559.0	559.0	559.0
2.5°	559.4	557.1	557.6	558.5	558.5
5°	556.2	556.2	555.2	556.6	557.1
7.5°	556.2	553.8	552.4	553.8	554.7
10°	548.6	547.7	548.6	548.2	549.6
12.5°	542.1	541.1	541.1	542.6	542.6
15°	534.6	534.6	533.2	535.5	535.0
17.5°	527.1	527.1	526.1	526.1	527.1
20°	518.2	515.8	516.8	516.3	515.8
22.5°	506.0	504.6	503.6	505.0	505.5
25°	494.3	493.3	491.4	493.3	492.8
27.5°	481.6	480.7	480.2	479.2	480.2
30°	467.5	466.6	466.1	465.2	465.2
32.5°	453.5	451.6	449.2	451.6	451.1
35°	436.6	436.6	434.7	435.2	436.6
37.5°	421.6	420.6	419.7	418.3	418.8
40°	404.7	403.3	402.8	401.9	400.0
42.5°	385.0	385.0	383.1	383.6	383.1
45°	367.2	366.7	364.8	364.8	364.8
47.5°	348.4	347.9	346.5	345.6	346.5
50°	329.2	327.3	327.3	325.9	325.4
52.5°	309.0	307.6	305.7	306.2	305.3
55°	287.5	287.0	285.6	285.1	285.1
57.5°	265.9	266.4	265.4	263.5	264.0
60°	244.8	244.3	243.4	242.4	242.4
62.5°	223.2	223.2	221.3	221.3	219.5
65°	201.6	201.6	199.3	200.2	198.4
67.5°	180.1	179.6	178.2	177.7	178.2
70°	156.6	157.1	156.2	156.2	156.6
72.5°	135.5	135.1	134.6	134.6	135.5
75°	114.4	114.0	113.0	113.0	114.0
77.5°	95.2	92.8	92.4	93.3	91.9
80°	76.0	72.7	72.2	71.7	71.7
82.5°	53.5	52.1	52.5	52.1	53.0
85°	33.8	33.3	32.8	32.8	33.3
87.5°	15.9	15.0	15.0	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)