

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: P292748

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292748
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1593.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

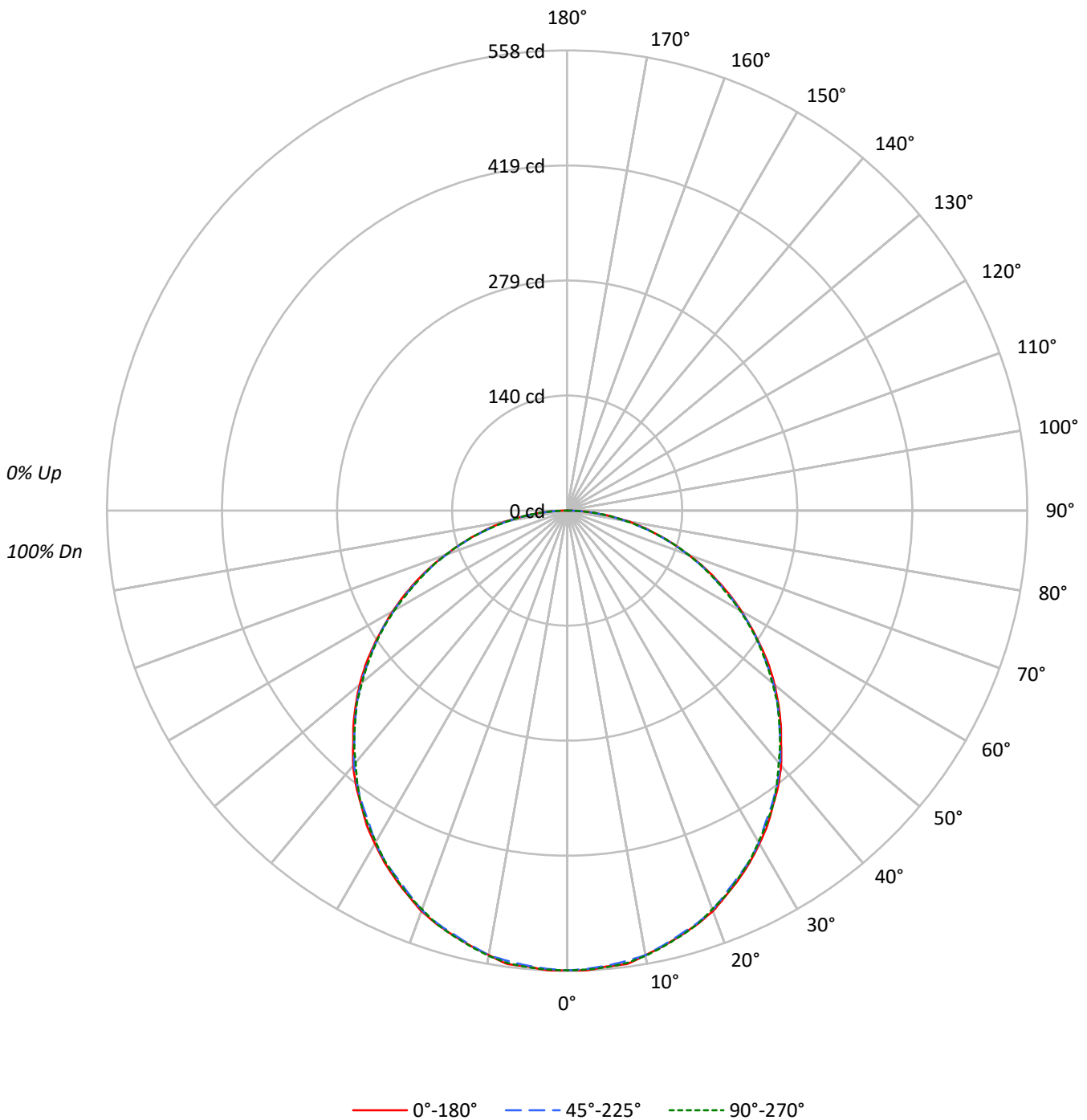
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1500	1500	1500
5°	1499	1496	1501
10°	1495	1495	1498
15°	1485	1482	1487
20°	1480	1476	1473
25°	1464	1455	1460
30°	1449	1445	1442
35°	1431	1424	1431
40°	1418	1411	1402
45°	1394	1385	1385
50°	1375	1367	1359
55°	1345	1337	1334
60°	1314	1307	1301
65°	1280	1266	1260
70°	1229	1226	1229
75°	1186	1172	1182
80°	1175	1116	1110
85°	1041	1010	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.3
10°-20°	150.5	9.4
20°-30°	226.6	14.2
30°-40°	272.0	17.1
40°-50°	281.4	17.7
50°-60°	255.0	16.0
60°-70°	197.7	12.4
70°-80°	120.0	7.5
80°-90°	37.1	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°	429.9	27.0
0°-40°	701.8	44.1
0°-60°	1238.2	77.7
0°-90°	1593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	555	555	554	555	556	53
15°	533	533	532	534	534	151
25°	493	492	490	492	492	227
35°	436	436	434	434	436	273
45°	366	366	364	364	364	283
55°	287	286	285	284	284	256
65°	201	201	199	200	198	199
75°	114	114	113	113	114	121
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°	557.6	557.6	557.6	557.6	557.6
2.5°	558.0	555.7	556.2	557.1	557.1
5°	554.8	554.8	553.8	555.2	555.7
7.5°	554.8	552.4	551.0	552.4	553.4
10°	547.3	546.3	547.3	546.8	548.2
12.5°	540.7	539.8	539.8	541.2	541.2
15°	533.2	533.2	531.8	534.2	533.7
17.5°	525.8	525.8	524.8	524.8	525.8
20°	516.9	514.5	515.5	515.0	514.5
22.5°	504.7	503.3	502.4	503.8	504.2
25°	493.0	492.1	490.2	492.1	491.6
27.5°	480.4	479.4	479.0	478.0	479.0
30°	466.4	465.4	464.9	464.0	464.0
32.5°	452.3	450.4	448.1	450.4	450.0
35°	435.5	435.5	433.6	434.1	435.5
37.5°	420.5	419.6	418.6	417.2	417.7
40°	403.7	402.3	401.8	400.9	399.0
42.5°	384.0	384.0	382.2	382.6	382.2
45°	366.3	365.8	363.9	363.9	363.9
47.5°	347.5	347.1	345.7	344.7	345.7
50°	328.4	326.5	326.5	325.1	324.6
52.5°	308.3	306.8	305.0	305.4	304.5
55°	286.7	286.3	284.9	284.4	284.4
57.5°	265.2	265.7	264.7	262.9	263.3
60°	244.2	243.7	242.8	241.8	241.8
62.5°	222.7	222.7	220.8	220.8	218.9
65°	201.1	201.1	198.8	199.7	197.9
67.5°	179.6	179.2	177.7	177.3	177.7
70°	156.2	156.7	155.8	155.8	156.2
72.5°	135.2	134.7	134.2	134.2	135.2
75°	114.1	113.7	112.7	112.7	113.7
77.5°	95.0	92.6	92.1	93.1	91.7
80°	75.8	72.5	72.0	71.6	71.6
82.5°	53.3	51.9	52.4	51.9	52.9
85°	33.7	33.2	32.7	32.7	33.2
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)