

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: P292846

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292846
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-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: 1361.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

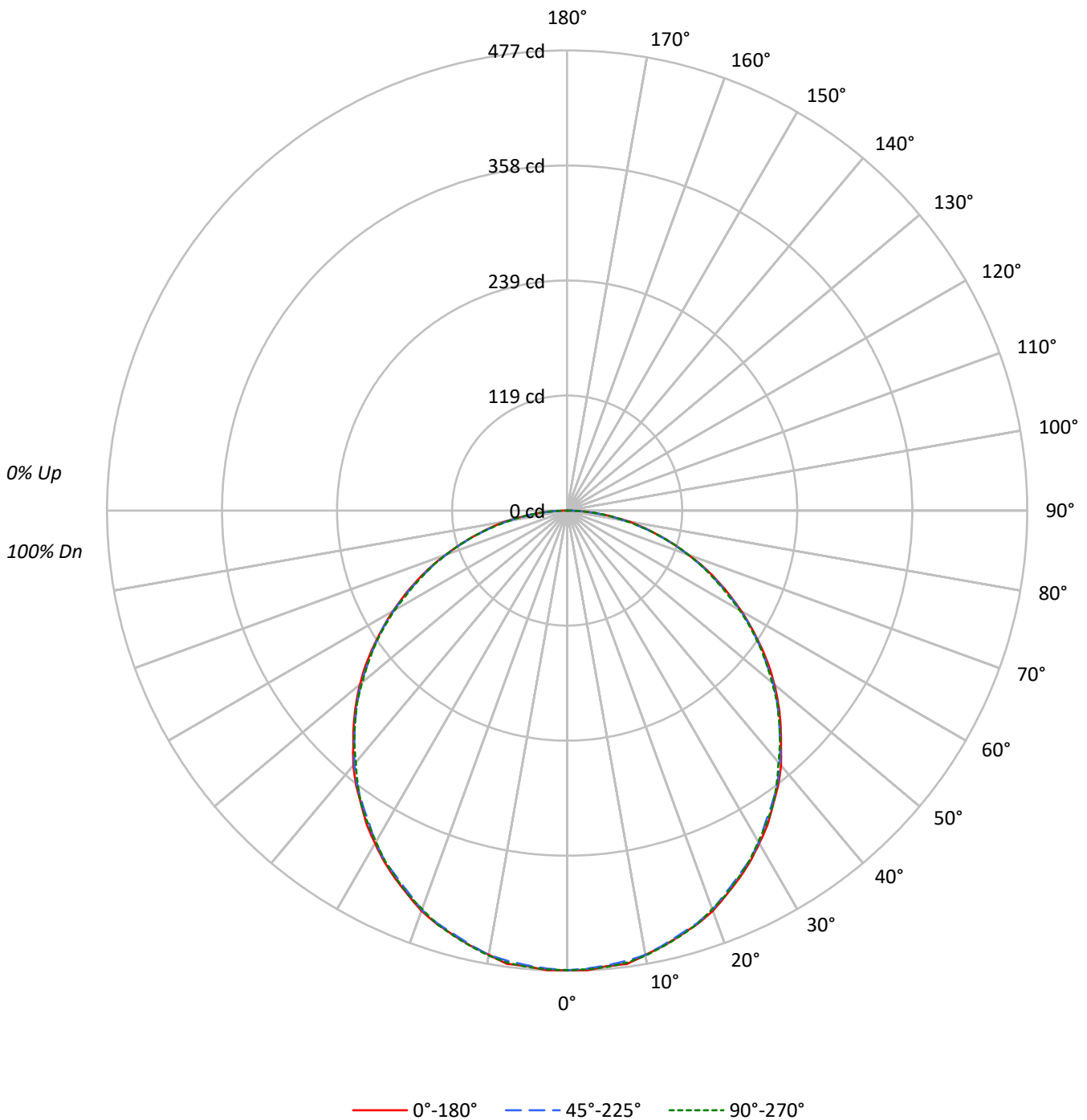
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1282	1282	1282
5°	1280	1278	1283
10°	1278	1278	1280
15°	1269	1266	1270
20°	1265	1261	1259
25°	1251	1243	1247
30°	1238	1234	1232
35°	1222	1217	1222
40°	1212	1206	1198
45°	1191	1183	1183
50°	1174	1168	1161
55°	1149	1142	1140
60°	1123	1116	1112
65°	1094	1081	1076
70°	1050	1047	1050
75°	1014	1001	1010
80°	1003	953	947
85°	889	865	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.3
10°-20°	128.6	9.4
20°-30°	193.6	14.2
30°-40°	232.4	17.1
40°-50°	240.4	17.7
50°-60°	217.9	16.0
60°-70°	168.9	12.4
70°-80°	102.5	7.5
80°-90°	31.7	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°	367.3	27.0
0°-40°	599.6	44.1
0°-60°	1057.9	77.7
0°-90°	1361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	474	474	473	474	475	45
15°	456	456	454	456	456	129
25°	421	420	419	420	420	194
35°	372	372	370	371	372	233
45°	313	312	311	311	311	241
55°	245	245	243	243	243	219
65°	172	172	170	171	169	170
75°	98	97	96	96	97	104
85°	29	28	28	28	28	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.4	476.4	476.4	476.4	476.4
2.5°	476.8	474.8	475.2	476.0	476.0
5°	474.0	474.0	473.2	474.4	474.8
7.5°	474.0	472.0	470.8	472.0	472.8
10°	467.6	466.8	467.6	467.2	468.4
12.5°	462.0	461.2	461.2	462.4	462.4
15°	455.6	455.6	454.4	456.4	456.0
17.5°	449.2	449.2	448.4	448.4	449.2
20°	441.6	439.6	440.4	440.0	439.6
22.5°	431.2	430.0	429.2	430.4	430.8
25°	421.2	420.4	418.8	420.4	420.0
27.5°	410.4	409.6	409.2	408.4	409.2
30°	398.4	397.6	397.2	396.4	396.4
32.5°	386.4	384.8	382.8	384.8	384.4
35°	372.1	372.1	370.5	370.9	372.1
37.5°	359.3	358.5	357.7	356.5	356.9
40°	344.9	343.7	343.3	342.5	340.9
42.5°	328.1	328.1	326.5	326.9	326.5
45°	312.9	312.5	310.9	310.9	310.9
47.5°	296.9	296.5	295.3	294.5	295.3
50°	280.5	278.9	278.9	277.7	277.3
52.5°	263.4	262.2	260.6	261.0	260.2
55°	245.0	244.6	243.4	243.0	243.0
57.5°	226.6	227.0	226.2	224.6	225.0
60°	208.6	208.2	207.4	206.6	206.6
62.5°	190.2	190.2	188.6	188.6	187.0
65°	171.8	171.8	169.8	170.6	169.0
67.5°	153.5	153.1	151.9	151.5	151.9
70°	133.5	133.9	133.1	133.1	133.5
72.5°	115.5	115.1	114.7	114.7	115.5
75°	97.5	97.1	96.3	96.3	97.1
77.5°	81.1	79.1	78.7	79.5	78.3
80°	64.7	61.9	61.5	61.1	61.1
82.5°	45.6	44.4	44.8	44.4	45.2
85°	28.8	28.4	28.0	28.0	28.4
87.5°	13.6	12.8	12.8	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)