

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: P292886

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292886
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-LD5-36-FGW080-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2738.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

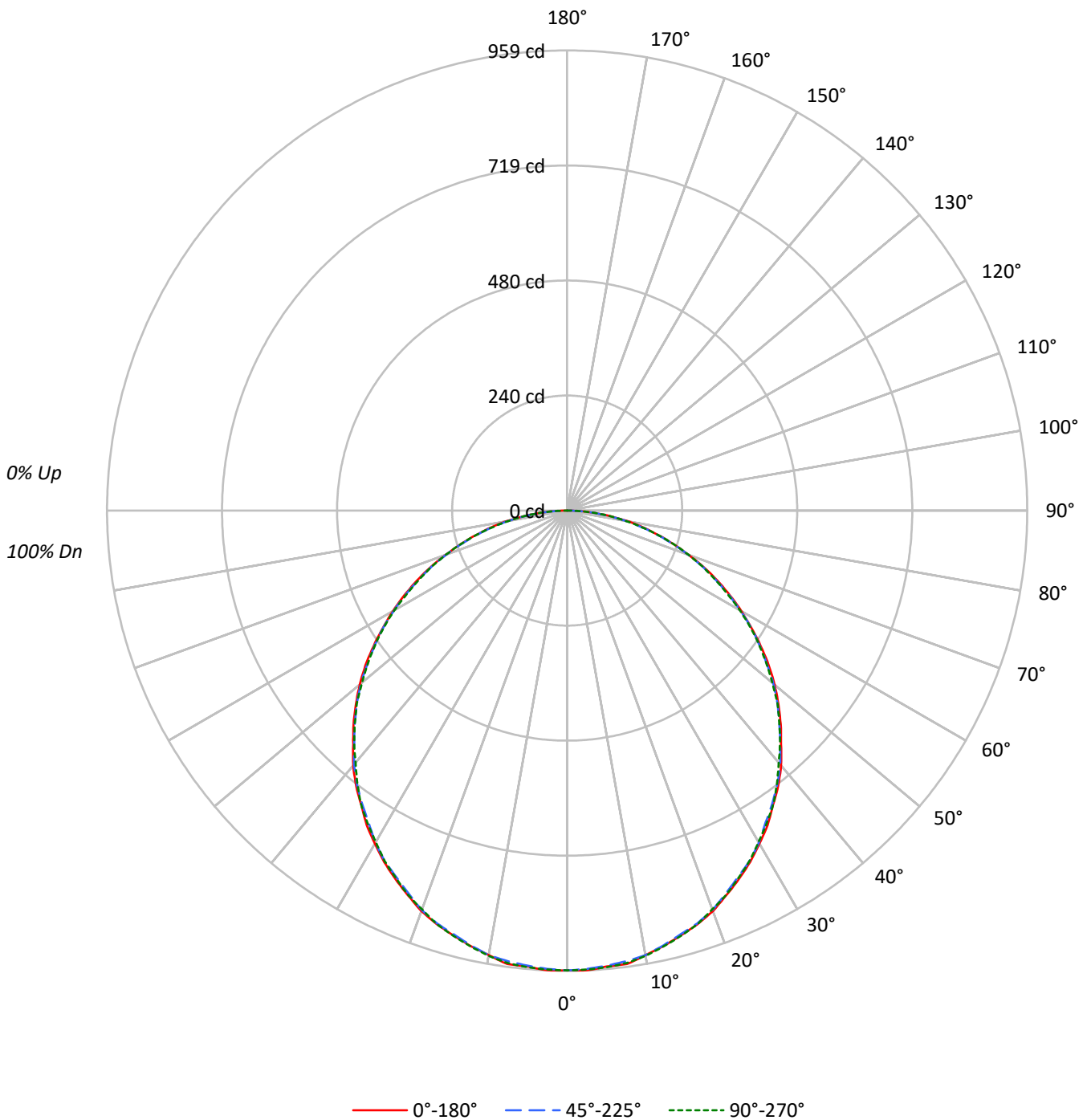
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2579	2579	2579
5°	2576	2571	2580
10°	2570	2570	2575
15°	2553	2547	2556
20°	2544	2537	2533
25°	2516	2502	2509
30°	2491	2483	2478
35°	2459	2448	2459
40°	2437	2426	2409
45°	2396	2380	2380
50°	2363	2349	2336
55°	2312	2297	2293
60°	2259	2246	2237
65°	2201	2176	2166
70°	2113	2106	2113
75°	2040	2015	2032
80°	2018	1918	1906
85°	1788	1738	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.3
10°-20°	258.7	9.4
20°-30°	389.5	14.2
30°-40°	467.4	17.1
40°-50°	483.7	17.7
50°-60°	438.3	16.0
60°-70°	339.7	12.4
70°-80°	206.2	7.5
80°-90°	63.8	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°	738.8	27.0
0°-40°	1206.3	44.1
0°-60°	2128.2	77.7
0°-90°	2738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	954	954	952	954	955	91
15°	916	916	914	918	917	259
25°	847	846	843	846	845	391
35°	748	748	745	746	748	469
45°	630	629	626	626	626	486
55°	493	492	490	489	489	441
65°	346	346	342	343	340	342
75°	196	195	194	194	195	209
85°	58	57	56	56	57	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.3	958.3	958.3	958.3	958.3
2.5°	959.1	955.1	955.9	957.5	957.5
5°	953.5	953.5	951.9	954.3	955.1
7.5°	953.5	949.5	947.1	949.5	951.1
10°	940.6	939.0	940.6	939.8	942.2
12.5°	929.4	927.8	927.8	930.2	930.2
15°	916.5	916.5	914.1	918.1	917.3
17.5°	903.7	903.7	902.0	902.0	903.7
20°	888.4	884.4	886.0	885.2	884.4
22.5°	867.5	865.1	863.5	865.9	866.7
25°	847.4	845.8	842.6	845.8	845.0
27.5°	825.7	824.1	823.3	821.7	823.3
30°	801.6	799.9	799.1	797.5	797.5
32.5°	777.4	774.2	770.2	774.2	773.4
35°	748.5	748.5	745.3	746.1	748.5
37.5°	722.8	721.2	719.5	717.1	717.9
40°	693.8	691.4	690.6	689.0	685.8
42.5°	660.1	660.1	656.8	657.6	656.8
45°	629.5	628.7	625.5	625.5	625.5
47.5°	597.3	596.5	594.1	592.5	594.1
50°	564.4	561.2	561.2	558.8	558.0
52.5°	529.8	527.4	524.2	525.0	523.4
55°	492.8	492.0	489.6	488.8	488.8
57.5°	455.8	456.7	455.0	451.8	452.6
60°	419.7	418.9	417.3	415.6	415.6
62.5°	382.7	382.7	379.5	379.5	376.3
65°	345.7	345.7	341.7	343.3	340.1
67.5°	308.7	307.9	305.5	304.7	305.5
70°	268.5	269.3	267.7	267.7	268.5
72.5°	232.3	231.5	230.7	230.7	232.3
75°	196.2	195.4	193.8	193.8	195.4
77.5°	163.2	159.2	158.4	160.0	157.6
80°	130.2	124.6	123.8	123.0	123.0
82.5°	91.7	89.2	90.0	89.2	90.8
85°	57.9	57.1	56.3	56.3	57.1
87.5°	27.3	25.7	25.7	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)