

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: P292837

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292837
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-LD5-40-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: 2895.0 lumens
Efficiency: N/A
Efficacy: 87.7 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

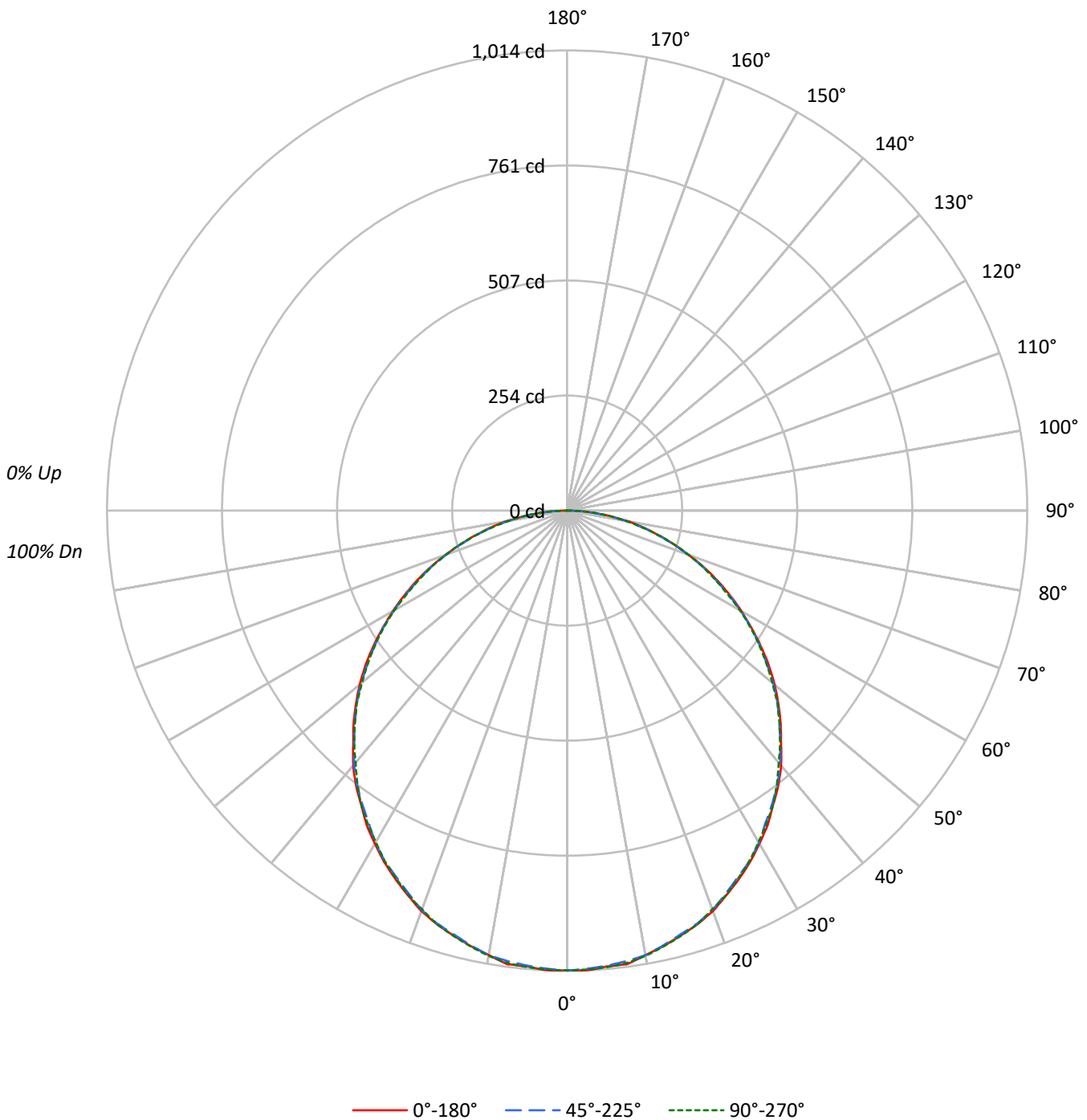
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2727	2727	2727
5°	2723	2719	2728
10°	2718	2718	2722
15°	2700	2693	2702
20°	2690	2683	2678
25°	2660	2645	2653
30°	2633	2626	2620
35°	2600	2589	2600
40°	2577	2565	2547
45°	2533	2517	2517
50°	2498	2484	2470
55°	2445	2429	2425
60°	2388	2375	2365
65°	2327	2301	2290
70°	2234	2227	2234
75°	2156	2130	2148
80°	2134	2029	2016
85°	1890	1837	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.3
10°-20°	273.5	9.4
20°-30°	411.8	14.2
30°-40°	494.2	17.1
40°-50°	511.4	17.7
50°-60°	463.4	16.0
60°-70°	359.2	12.4
70°-80°	218.1	7.5
80°-90°	67.5	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°	781.2	27.0
0°-40°	1275.4	44.1
0°-60°	2250.2	77.7
0°-90°	2895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1008	1008	1006	1009	1010	96
15°	969	969	966	971	970	274
25°	896	894	891	894	893	413
35°	791	791	788	789	791	496
45°	666	665	661	661	661	514
55°	521	520	518	517	517	466
65°	366	366	361	363	360	361
75°	207	207	205	205	207	221
85°	61	60	60	60	60	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.3	1013.3	1013.3	1013.3	1013.3
2.5°	1014.1	1009.9	1010.7	1012.4	1012.4
5°	1008.2	1008.2	1006.5	1009.0	1009.9
7.5°	1008.2	1003.9	1001.4	1003.9	1005.6
10°	994.6	992.9	994.6	993.7	996.3
12.5°	982.7	981.0	981.0	983.5	983.5
15°	969.1	969.1	966.5	970.8	969.9
17.5°	955.5	955.5	953.8	953.8	955.5
20°	939.3	935.1	936.8	935.9	935.1
22.5°	917.2	914.7	913.0	915.5	916.4
25°	896.0	894.3	890.9	894.3	893.4
27.5°	873.0	871.3	870.5	868.8	870.5
30°	847.5	845.8	845.0	843.3	843.3
32.5°	822.0	818.6	814.4	818.6	817.8
35°	791.4	791.4	788.0	788.9	791.4
37.5°	764.2	762.5	760.8	758.3	759.1
40°	733.6	731.1	730.2	728.5	725.1
42.5°	697.9	697.9	694.5	695.4	694.5
45°	665.6	664.8	661.4	661.4	661.4
47.5°	631.6	630.7	628.2	626.5	628.2
50°	596.7	593.3	593.3	590.8	589.9
52.5°	560.2	557.6	554.2	555.1	553.4
55°	521.1	520.2	517.7	516.8	516.8
57.5°	482.0	482.8	481.1	477.7	478.6
60°	443.7	442.9	441.2	439.5	439.5
62.5°	404.6	404.6	401.2	401.2	397.8
65°	365.5	365.5	361.3	363.0	359.6
67.5°	326.4	325.6	323.0	322.2	323.0
70°	283.9	284.8	283.1	283.1	283.9
72.5°	245.7	244.8	244.0	244.0	245.7
75°	207.4	206.6	204.9	204.9	206.6
77.5°	172.6	168.3	167.5	169.2	166.6
80°	137.7	131.8	130.9	130.1	130.1
82.5°	96.9	94.4	95.2	94.4	96.1
85°	61.2	60.4	59.5	59.5	60.4
87.5°	28.9	27.2	27.2	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)