

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: P292894

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292894
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-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3008.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

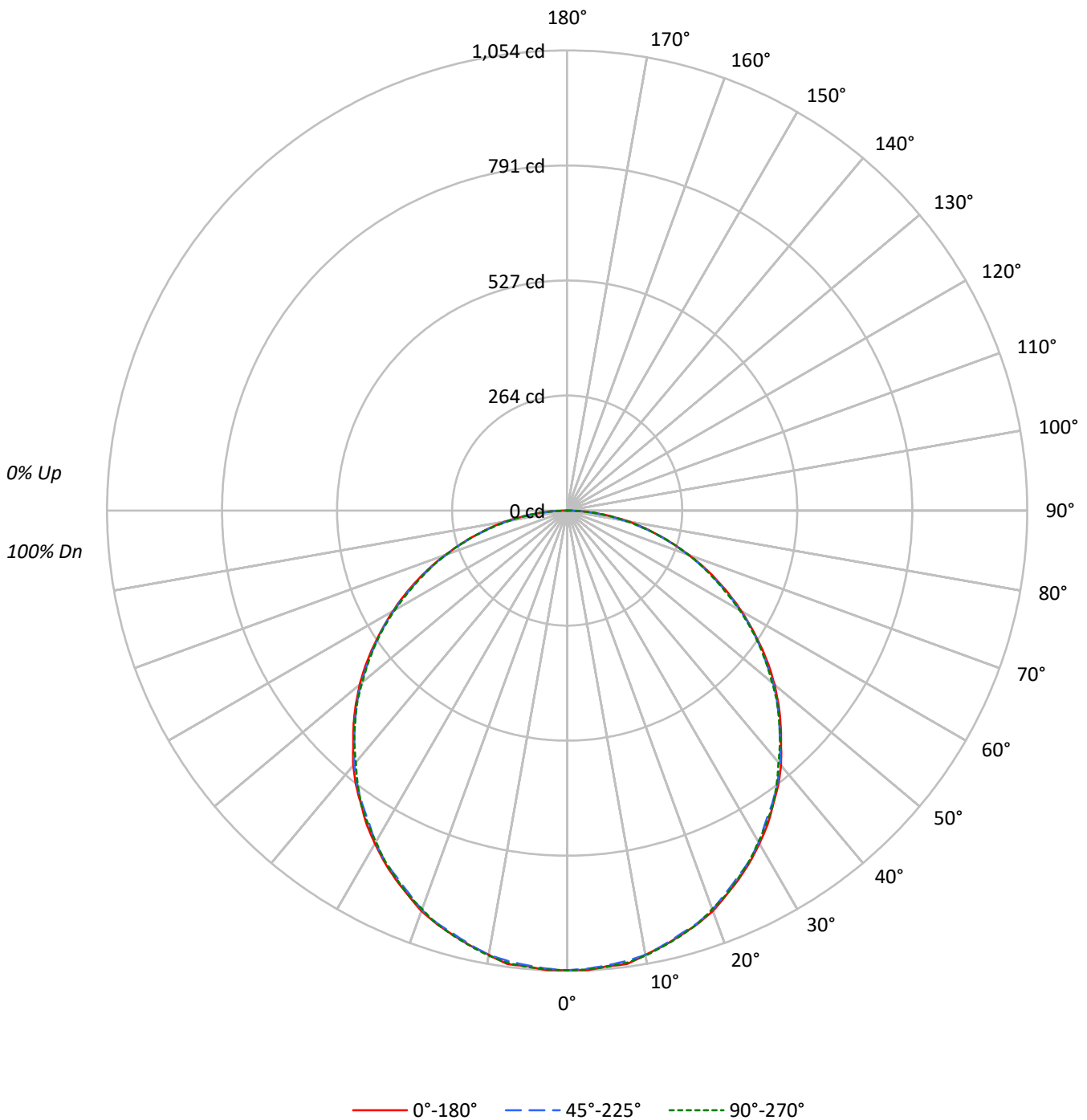
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2833	2833	2833
5°	2830	2825	2834
10°	2824	2824	2829
15°	2805	2798	2808
20°	2795	2787	2782
25°	2764	2748	2756
30°	2736	2728	2723
35°	2701	2690	2701
40°	2677	2665	2647
45°	2632	2615	2615
50°	2596	2581	2566
55°	2540	2524	2519
60°	2482	2467	2457
65°	2418	2390	2379
70°	2321	2314	2321
75°	2241	2214	2231
80°	2218	2108	2094
85°	1964	1908	1936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.3
10°-20°	284.2	9.4
20°-30°	427.9	14.2
30°-40°	513.5	17.1
40°-50°	531.4	17.7
50°-60°	481.5	16.0
60°-70°	373.2	12.4
70°-80°	226.6	7.5
80°-90°	70.1	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°	811.7	27.0
0°-40°	1325.2	44.1
0°-60°	2338.1	77.7
0°-90°	3008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1048	1048	1046	1048	1049	100
15°	1007	1007	1004	1009	1008	284
25°	931	929	926	929	928	429
35°	822	822	819	820	822	516
45°	692	691	687	687	687	534
55°	541	540	538	537	537	484
65°	380	380	375	377	374	376
75°	216	215	213	213	215	229
85°	64	63	62	62	63	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.8	1052.8	1052.8	1052.8	1052.8
2.5°	1053.7	1049.3	1050.2	1051.9	1051.9
5°	1047.5	1047.5	1045.8	1048.4	1049.3
7.5°	1047.5	1043.1	1040.5	1043.1	1044.9
10°	1033.4	1031.6	1033.4	1032.5	1035.2
12.5°	1021.0	1019.3	1019.3	1021.9	1021.9
15°	1006.9	1006.9	1004.2	1008.7	1007.8
17.5°	992.8	992.8	991.0	991.0	992.8
20°	976.0	971.6	973.3	972.5	971.6
22.5°	953.0	950.4	948.6	951.3	952.1
25°	930.9	929.2	925.6	929.2	928.3
27.5°	907.1	905.3	904.4	902.7	904.4
30°	880.6	878.8	877.9	876.2	876.2
32.5°	854.1	850.6	846.1	850.6	849.7
35°	822.3	822.3	818.8	819.7	822.3
37.5°	794.0	792.3	790.5	787.9	788.7
40°	762.2	759.6	758.7	756.9	753.4
42.5°	725.1	725.1	721.6	722.5	721.6
45°	691.6	690.7	687.2	687.2	687.2
47.5°	656.3	655.4	652.7	651.0	652.7
50°	620.0	616.5	616.5	613.9	613.0
52.5°	582.1	579.4	575.9	576.8	575.0
55°	541.4	540.5	537.9	537.0	537.0
57.5°	500.8	501.7	499.9	496.4	497.3
60°	461.1	460.2	458.4	456.6	456.6
62.5°	420.4	420.4	416.9	416.9	413.4
65°	379.8	379.8	375.4	377.1	373.6
67.5°	339.2	338.3	335.6	334.7	335.6
70°	295.0	295.9	294.1	294.1	295.0
72.5°	255.3	254.4	253.5	253.5	255.3
75°	215.5	214.6	212.9	212.9	214.6
77.5°	179.3	174.9	174.0	175.8	173.1
80°	143.1	136.9	136.0	135.1	135.1
82.5°	100.7	98.0	98.9	98.0	99.8
85°	63.6	62.7	61.8	61.8	62.7
87.5°	30.0	28.3	28.3	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)