

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: P291784

Luminaire Tested: **22GR-LD5-24-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

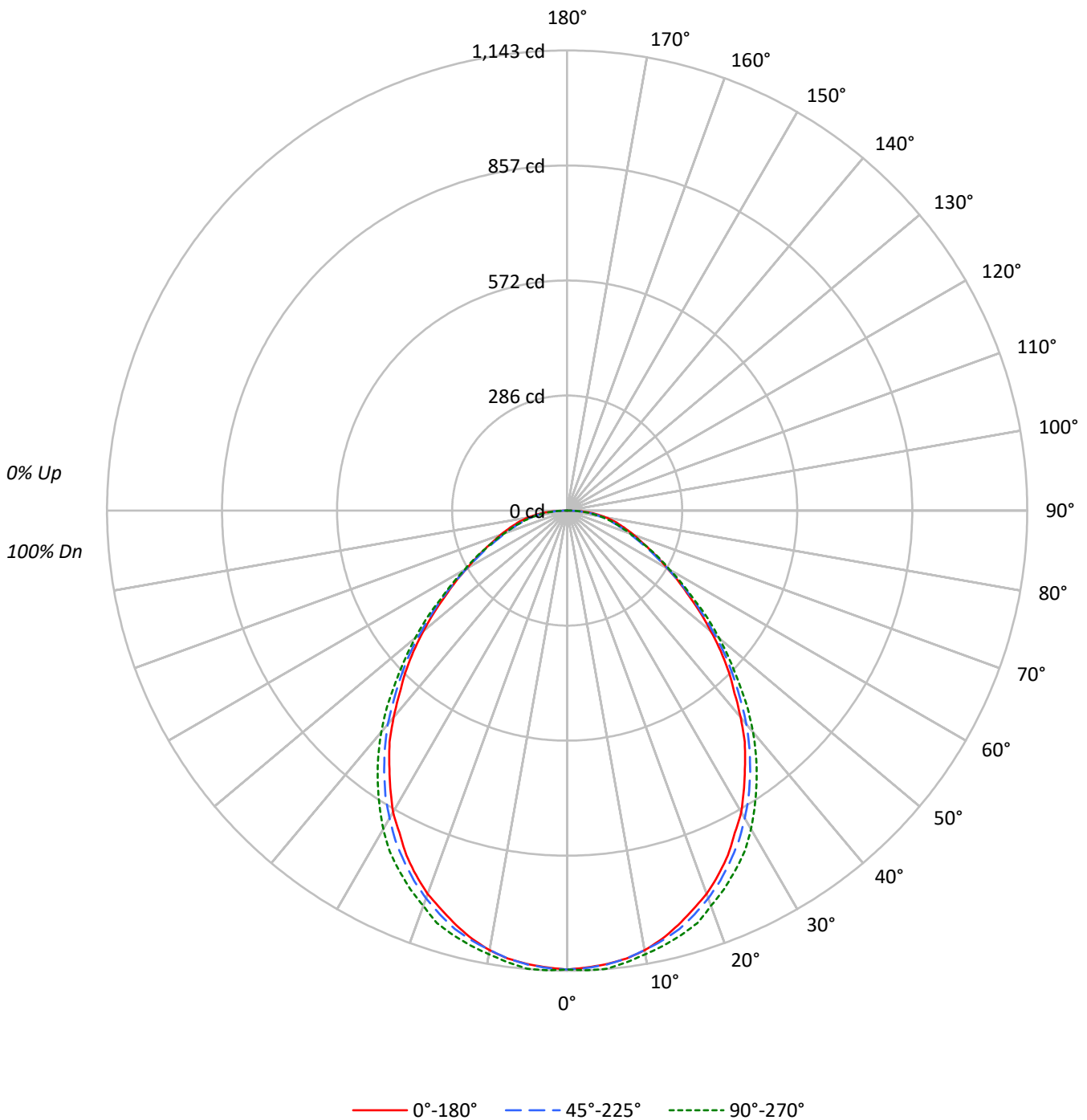
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3068	3068	3068
5°	3054	3057	3086
10°	3031	3029	3058
15°	2969	2998	3042
20°	2901	2935	2992
25°	2806	2850	2930
30°	2687	2742	2838
35°	2530	2603	2695
40°	2354	2434	2523
45°	2162	2224	2293
50°	1950	1999	2062
55°	1730	1771	1801
60°	1551	1554	1585
65°	1429	1380	1429
70°	1379	1278	1315
75°	1404	1252	1276
80°	1512	1313	1313
85°	1677	1389	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	4.2
10°-20°	303.3	11.9
20°-30°	442.7	17.4
30°-40°	495.6	19.5
40°-50°	451.1	17.7
50°-60°	339.5	13.3
60°-70°	221.5	8.7
70°-80°	132.9	5.2
80°-90°	49.8	2.0
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°	853.5	33.6
0°-40°	1349.2	53.0
0°-60°	2139.7	84.1
0°-90°	2544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1131	1129	1132	1136	1142	107
15°	1066	1067	1076	1085	1092	300
25°	945	948	960	978	987	434
35°	770	777	792	811	820	481
45°	568	574	584	597	602	437
55°	369	374	378	383	384	333
65°	224	222	217	220	224	224
75°	135	130	120	121	123	143
85°	54	53	45	43	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.0	1140.0	1140.0	1140.0	1140.0
2.5°	1135.9	1135.3	1137.1	1140.0	1142.9
5°	1130.7	1128.9	1131.8	1135.9	1142.4
7.5°	1122.5	1122.5	1122.5	1130.1	1131.3
10°	1109.1	1110.2	1108.5	1116.1	1119.0
12.5°	1089.8	1090.4	1093.9	1101.5	1106.7
15°	1065.8	1067.0	1076.3	1085.1	1092.1
17.5°	1038.9	1043.0	1051.8	1065.8	1074.6
20°	1013.2	1017.9	1024.9	1040.1	1044.8
22.5°	980.5	985.8	994.5	1008.0	1017.9
25°	944.9	947.8	960.0	977.6	986.9
27.5°	902.2	908.6	923.8	941.9	954.8
30°	864.8	868.3	882.3	903.4	913.3
32.5°	817.5	828.0	839.7	858.4	867.7
35°	770.1	777.2	792.3	811.0	820.4
37.5°	724.6	728.7	743.8	759.6	771.3
40°	670.2	677.8	693.0	710.0	718.1
42.5°	615.9	627.0	636.9	653.9	662.6
45°	568.0	573.8	584.3	596.6	602.4
47.5°	517.7	520.6	532.9	540.5	546.9
50°	465.7	469.2	477.4	485.0	492.6
52.5°	417.8	420.7	426.0	433.0	440.6
55°	368.7	374.0	377.5	382.7	383.9
57.5°	329.0	328.4	330.7	334.8	338.9
60°	288.1	289.2	288.7	292.7	294.5
62.5°	254.2	253.6	250.1	255.9	260.6
65°	224.4	222.0	216.8	220.3	224.4
67.5°	196.9	195.7	187.0	189.9	193.4
70°	175.3	171.2	162.4	164.2	167.1
72.5°	154.3	149.6	140.8	141.4	143.2
75°	135.0	130.3	120.4	121.0	122.7
77.5°	116.9	111.0	102.3	101.1	102.3
80°	97.6	92.3	84.7	81.2	84.7
82.5°	77.7	74.8	66.0	62.5	63.7
85°	54.3	52.6	45.0	42.7	44.4
87.5°	25.1	26.9	22.8	21.0	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)