

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: P292034

Luminaire Tested: **22GR-LD5-24-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

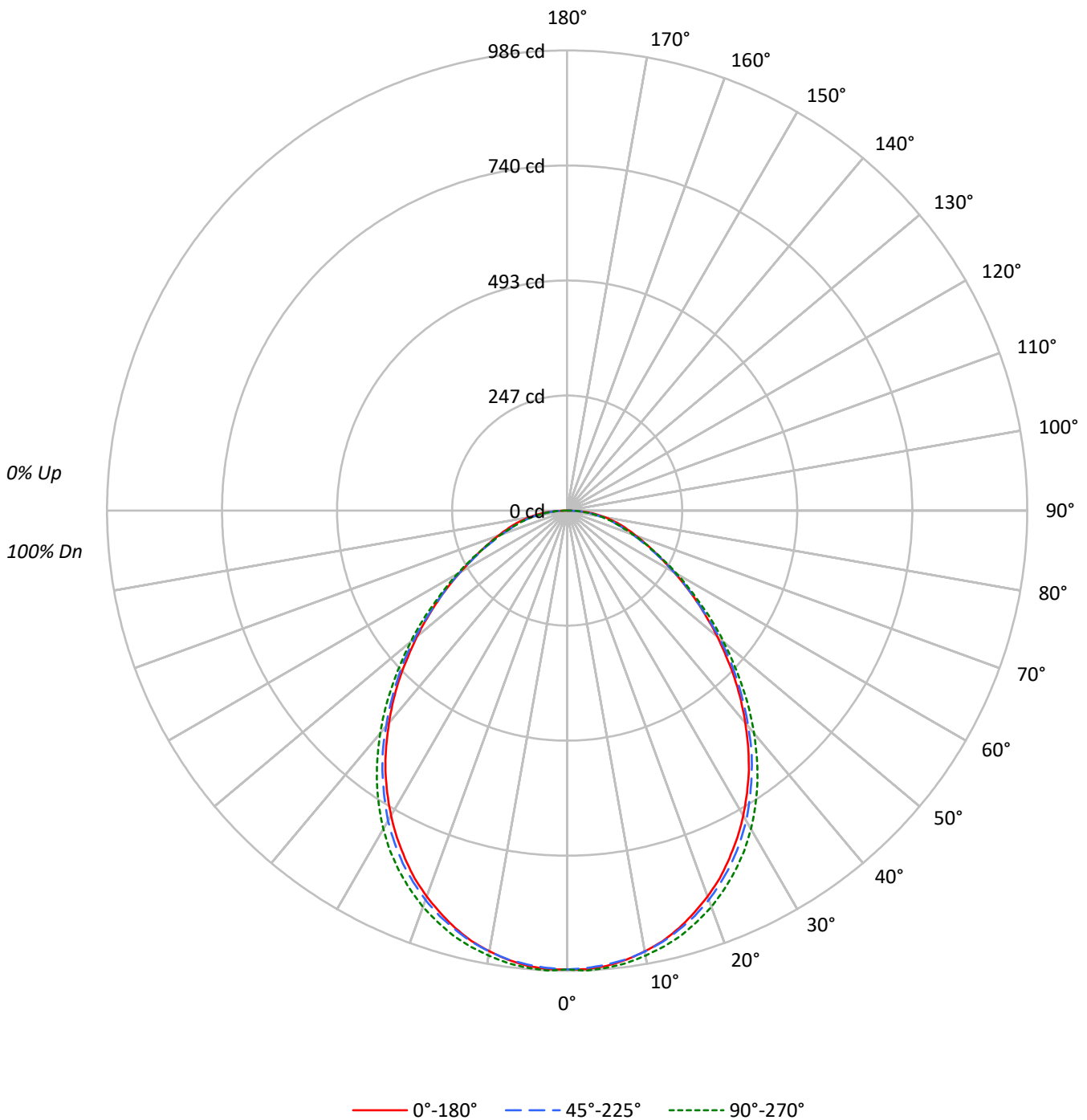
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2646	2646	2646
5°	2645	2638	2656
10°	2620	2622	2646
15°	2580	2589	2627
20°	2520	2542	2588
25°	2441	2475	2529
30°	2345	2385	2448
35°	2230	2266	2336
40°	2085	2120	2189
45°	1931	1960	2017
50°	1758	1786	1832
55°	1588	1592	1639
60°	1424	1429	1463
65°	1297	1271	1301
70°	1235	1165	1186
75°	1242	1124	1129
80°	1289	1136	1128
85°	1411	1204	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	4.1
10°-20°	262.4	11.7
20°-30°	384.1	17.1
30°-40°	431.9	19.3
40°-50°	398.3	17.8
50°-60°	307.0	13.7
60°-70°	202.6	9.0
70°-80°	117.9	5.3
80°-90°	42.9	1.9
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°	739.5	33.0
0°-40°	1171.3	52.3
0°-60°	1876.6	83.8
0°-90°	2240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	979	977	977	981	983	93
15°	926	926	929	938	943	261
25°	822	826	834	845	852	378
35°	679	682	690	704	711	423
45°	507	508	515	526	530	391
55°	338	338	339	345	349	304
65°	204	203	200	201	204	204
75°	120	114	108	106	109	126
85°	46	45	39	36	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.4	983.4	983.4	983.4	983.4
2.5°	983.4	981.3	980.8	984.4	986.5
5°	979.2	977.1	976.6	981.3	983.4
7.5°	970.9	969.3	969.9	975.1	977.7
10°	958.9	958.4	959.5	965.2	968.3
12.5°	944.9	944.4	946.5	952.7	956.9
15°	926.2	926.2	929.3	937.6	942.8
17.5°	903.8	905.4	910.1	918.4	924.1
20°	879.9	881.5	887.7	897.1	903.8
22.5°	853.4	855.5	861.7	873.2	878.9
25°	822.2	826.4	833.7	845.1	851.9
27.5°	790.0	794.7	801.5	815.5	821.7
30°	754.7	757.8	767.7	780.7	787.9
32.5°	717.3	720.4	728.7	744.3	750.5
35°	678.8	681.9	689.7	703.7	711.0
37.5°	637.2	639.8	649.2	660.1	667.9
40°	593.6	597.2	603.4	616.4	623.2
42.5°	550.9	552.5	559.3	572.2	577.4
45°	507.3	507.8	515.1	525.5	530.1
47.5°	462.1	463.1	471.9	478.2	482.8
50°	420.0	420.5	426.7	432.4	437.6
52.5°	377.9	377.9	381.0	387.2	394.0
55°	338.4	337.8	339.4	345.1	349.3
57.5°	300.9	300.4	302.5	306.1	309.3
60°	264.6	263.5	265.6	267.7	271.8
62.5°	232.3	233.4	230.8	233.9	237.0
65°	203.7	202.7	199.6	201.1	204.3
67.5°	179.3	177.8	172.6	173.6	177.2
70°	157.0	153.8	148.1	148.1	150.7
72.5°	136.7	133.6	126.3	126.8	127.9
75°	119.5	114.3	108.1	106.0	108.6
77.5°	100.8	96.7	91.0	89.4	90.4
80°	83.2	80.0	73.3	71.2	72.8
82.5°	66.0	63.4	55.6	54.1	54.6
85°	45.7	45.2	39.0	35.9	36.9
87.5°	24.4	24.9	20.3	18.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)