

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: P291980

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291980
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 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): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

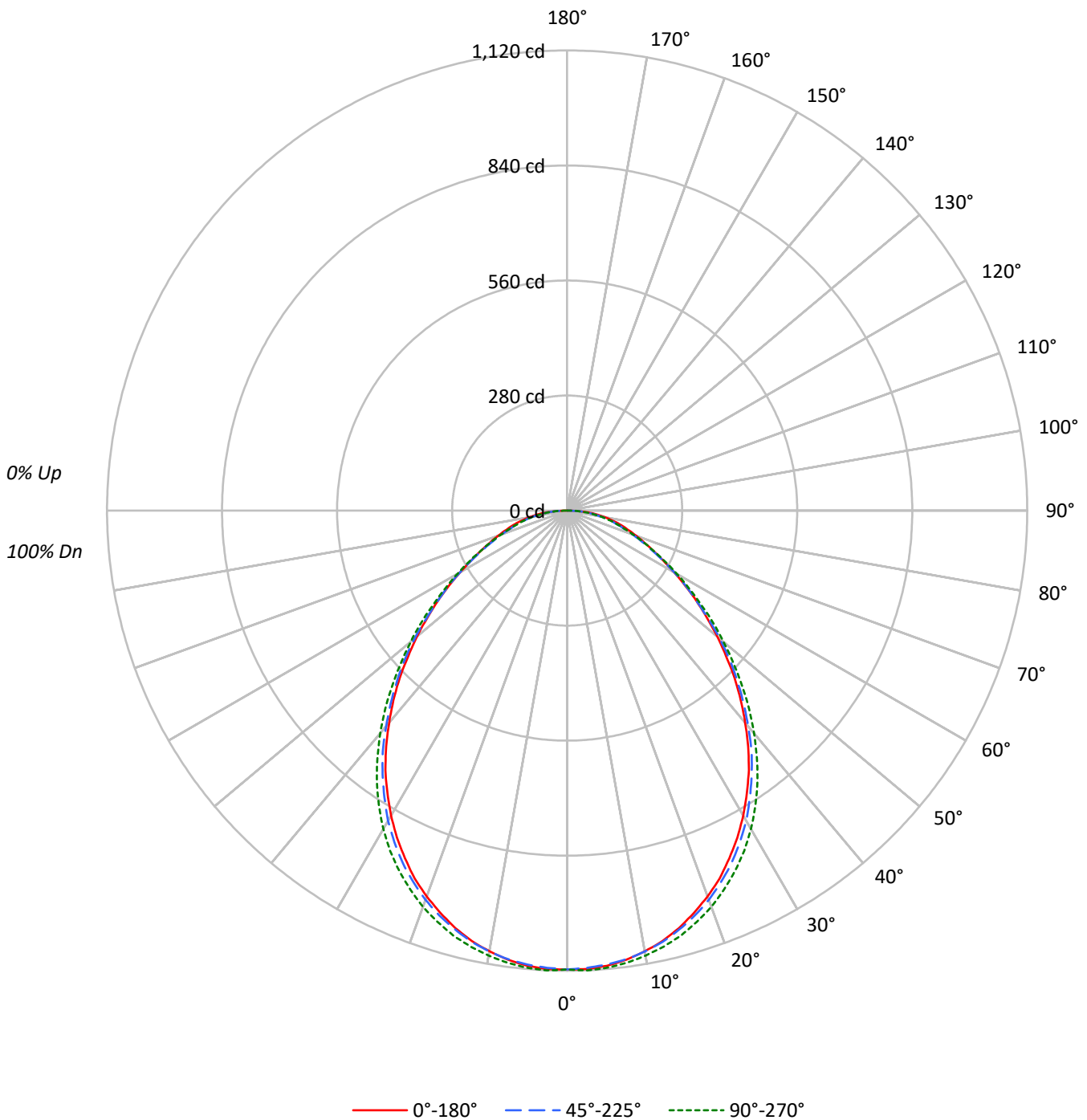
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3005	3005	3005
5°	3004	2996	3017
10°	2976	2978	3005
15°	2930	2940	2983
20°	2862	2887	2940
25°	2773	2811	2873
30°	2663	2709	2781
35°	2532	2573	2653
40°	2368	2407	2486
45°	2192	2226	2291
50°	1997	2029	2081
55°	1803	1809	1861
60°	1617	1623	1661
65°	1473	1443	1477
70°	1403	1323	1347
75°	1412	1277	1283
80°	1463	1289	1280
85°	1602	1368	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	4.1
10°-20°	298.1	11.7
20°-30°	436.3	17.1
30°-40°	490.5	19.3
40°-50°	452.3	17.8
50°-60°	348.6	13.7
60°-70°	230.0	9.0
70°-80°	133.9	5.3
80°-90°	48.8	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°	839.8	33.0
0°-40°	1330.3	52.3
0°-60°	2131.3	83.8
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°	1117	1117	1117	1117	1117	
5°	1112	1110	1109	1114	1117	105
15°	1052	1052	1055	1065	1071	296
25°	934	939	947	960	968	430
35°	771	774	783	799	808	481
45°	576	577	585	597	602	444
55°	384	384	386	392	397	345
65°	231	230	227	228	232	232
75°	136	130	123	120	123	143
85°	52	51	44	41	42	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.8	1116.8	1116.8	1116.8	<i>1116.8</i>
2.5°	<i>1116.8</i>	<i>1114.5</i>	<i>1113.9</i>	<i>1118.0</i>	<i>1120.4</i>
5°	1112.1	1109.7	1109.2	1114.5	<i>1116.8</i>
7.5°	1102.7	1100.9	1101.5	1107.4	<i>1110.3</i>
10°	1089.1	1088.5	1089.7	1096.2	<i>1099.7</i>
12.5°	1073.1	1072.6	1074.9	1082.0	<i>1086.7</i>
15°	1051.9	1051.9	1055.4	1064.9	<i>1070.8</i>
17.5°	1026.5	1028.3	1033.6	1043.0	<i>1049.5</i>
20°	999.4	1001.1	1008.2	1018.8	<i>1026.5</i>
22.5°	969.3	971.6	978.7	991.7	<i>998.2</i>
25°	933.8	938.6	946.8	959.8	<i>967.5</i>
27.5°	897.2	902.6	910.2	926.2	<i>933.2</i>
30°	857.1	860.6	871.9	886.6	<i>894.9</i>
32.5°	814.6	818.1	827.6	845.3	<i>852.4</i>
35°	770.9	774.5	783.3	799.3	<i>807.5</i>
37.5°	723.7	726.6	737.3	749.7	<i>758.5</i>
40°	674.1	678.2	685.3	700.1	<i>707.8</i>
42.5°	625.7	627.5	635.2	649.9	<i>655.8</i>
45°	576.1	576.7	585.0	596.8	<i>602.1</i>
47.5°	524.8	525.9	536.0	543.1	<i>548.4</i>
50°	477.0	477.5	484.6	491.1	<i>497.0</i>
52.5°	429.1	429.1	432.7	439.8	<i>447.4</i>
55°	384.3	383.7	385.5	392.0	<i>396.7</i>
57.5°	341.8	341.2	343.5	347.7	<i>351.2</i>
60°	300.5	299.3	301.6	304.0	<i>308.7</i>
62.5°	263.9	265.0	262.1	265.6	<i>269.2</i>
65°	231.4	230.2	226.7	228.4	<i>232.0</i>
67.5°	203.6	201.9	196.0	197.2	<i>201.3</i>
70°	178.3	174.7	168.2	168.2	<i>171.2</i>
72.5°	155.2	151.7	143.4	144.0	<i>145.2</i>
75°	135.8	129.9	122.8	120.4	<i>123.4</i>
77.5°	114.5	109.8	103.3	101.5	<i>102.7</i>
80°	94.4	90.9	83.2	80.9	<i>82.6</i>
82.5°	75.0	72.0	63.2	61.4	<i>62.0</i>
85°	51.9	51.4	44.3	40.7	<i>41.9</i>
87.5°	27.7	28.3	23.0	20.7	<i>21.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)