

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: P291893

Luminaire Tested: **22GR-LD5-32-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291893
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-LD5-32-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

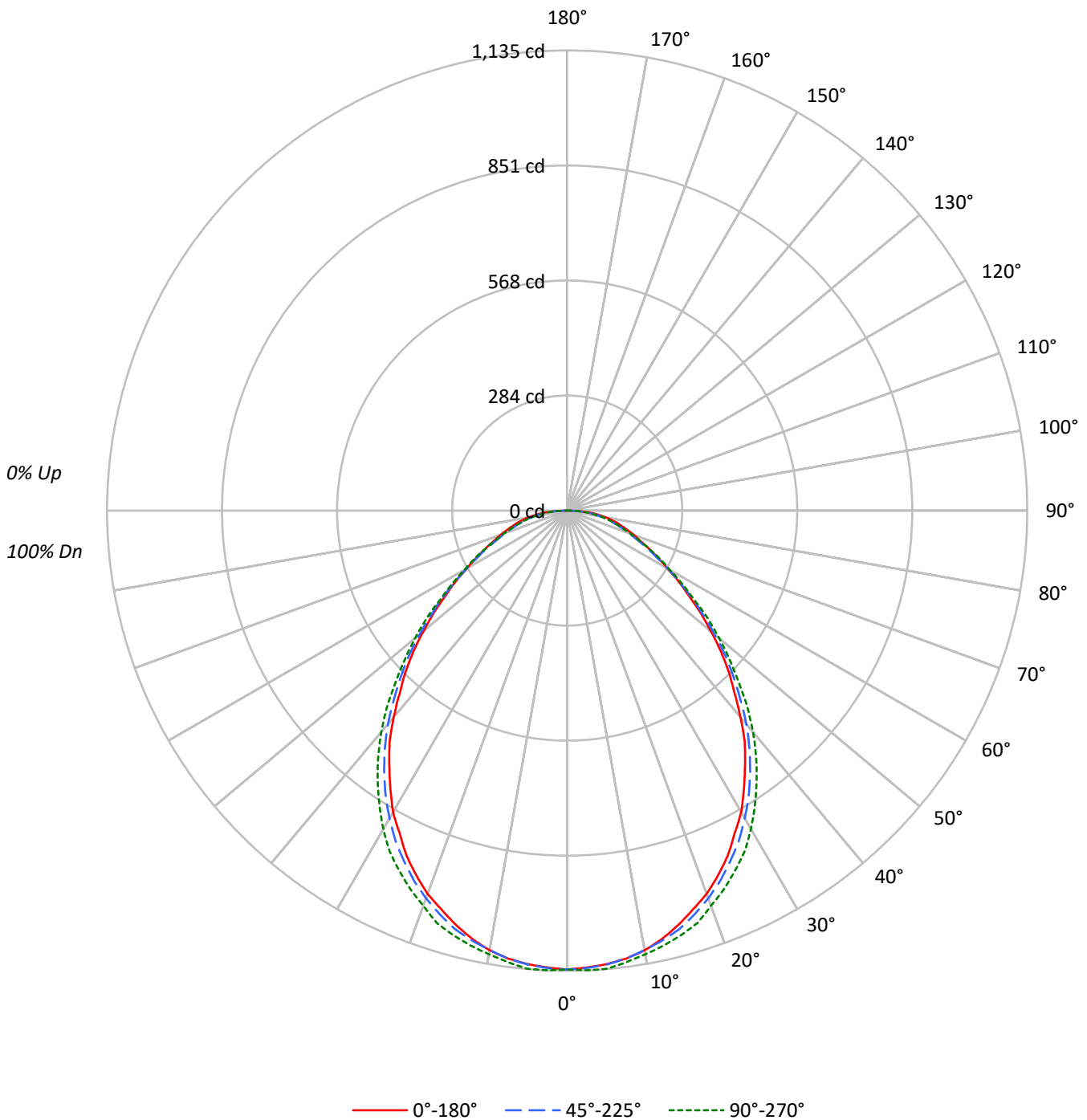
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3046	3046	3046
5°	3033	3036	3064
10°	3009	3007	3036
15°	2948	2977	3021
20°	2881	2914	2971
25°	2786	2831	2909
30°	2668	2722	2818
35°	2512	2584	2676
40°	2338	2417	2505
45°	2146	2208	2277
50°	1936	1984	2048
55°	1718	1758	1788
60°	1539	1542	1574
65°	1419	1371	1419
70°	1370	1269	1305
75°	1393	1242	1266
80°	1502	1303	1303
85°	1667	1380	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	4.2
10°-20°	301.2	11.9
20°-30°	439.6	17.4
30°-40°	492.1	19.5
40°-50°	447.9	17.7
50°-60°	337.1	13.3
60°-70°	220.0	8.7
70°-80°	131.9	5.2
80°-90°	49.5	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°	847.5	33.6
0°-40°	1339.6	53.0
0°-60°	2124.6	84.1
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1123	1121	1124	1128	1134	107
15°	1058	1059	1069	1077	1084	298
25°	938	941	953	971	980	431
35°	765	772	787	805	815	478
45°	564	570	580	592	598	434
55°	366	371	375	380	381	331
65°	223	220	215	219	223	223
75°	134	129	120	120	122	142
85°	54	52	45	42	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.0	1132.0	1132.0	1132.0	<i>1132.0</i>
2.5°	<i>1127.9</i>	<i>1127.3</i>	<i>1129.1</i>	<i>1132.0</i>	<i>1134.9</i>
5°	1122.7	1120.9	1123.8	1127.9	<i>1134.3</i>
7.5°	1114.5	1114.5	1114.5	1122.1	<i>1123.3</i>
10°	1101.2	1102.4	1100.6	1108.2	<i>1111.1</i>
12.5°	1082.1	1082.6	1086.1	1093.7	<i>1098.9</i>
15°	1058.3	1059.4	1068.7	1077.4	<i>1084.4</i>
17.5°	1031.6	1035.6	1044.3	1058.3	<i>1067.0</i>
20°	1006.1	1010.7	1017.7	1032.7	<i>1037.4</i>
22.5°	973.6	978.8	987.5	1000.8	<i>1010.7</i>
25°	938.2	941.1	953.3	970.7	<i>979.9</i>
27.5°	895.8	902.2	917.3	935.3	<i>948.0</i>
30°	858.7	862.2	876.1	897.0	<i>906.8</i>
32.5°	811.7	822.1	833.7	852.3	<i>861.6</i>
35°	764.7	771.7	786.7	805.3	<i>814.6</i>
37.5°	719.4	723.5	738.6	754.2	<i>765.9</i>
40°	665.5	673.0	688.1	704.9	<i>713.1</i>
42.5°	611.5	622.5	632.4	649.2	<i>657.9</i>
45°	563.9	569.7	580.2	592.4	<i>598.2</i>
47.5°	514.1	517.0	529.1	536.7	<i>543.1</i>
50°	462.4	465.9	474.0	481.6	<i>489.1</i>
52.5°	414.8	417.7	423.0	429.9	<i>437.5</i>
55°	366.1	371.3	374.8	380.0	<i>381.2</i>
57.5°	326.6	326.1	328.4	332.5	<i>336.5</i>
60°	286.0	287.2	286.6	290.7	<i>292.4</i>
62.5°	252.4	251.8	248.3	254.1	<i>258.8</i>
65°	222.8	220.5	215.3	218.7	<i>222.8</i>
67.5°	195.5	194.4	185.7	188.6	<i>192.0</i>
70°	174.1	170.0	161.3	163.0	<i>165.9</i>
72.5°	153.2	148.5	139.8	140.4	<i>142.1</i>
75°	134.0	129.4	119.5	120.1	<i>121.8</i>
77.5°	116.0	110.2	101.5	100.4	<i>101.5</i>
80°	96.9	91.7	84.1	80.6	<i>84.1</i>
82.5°	77.2	74.3	65.6	62.1	<i>63.2</i>
85°	54.0	52.2	44.7	42.4	<i>44.1</i>
87.5°	24.9	26.7	22.6	20.9	<i>21.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)