

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: P291898

Luminaire Tested: **22GR-LD5-32-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291898
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2979.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

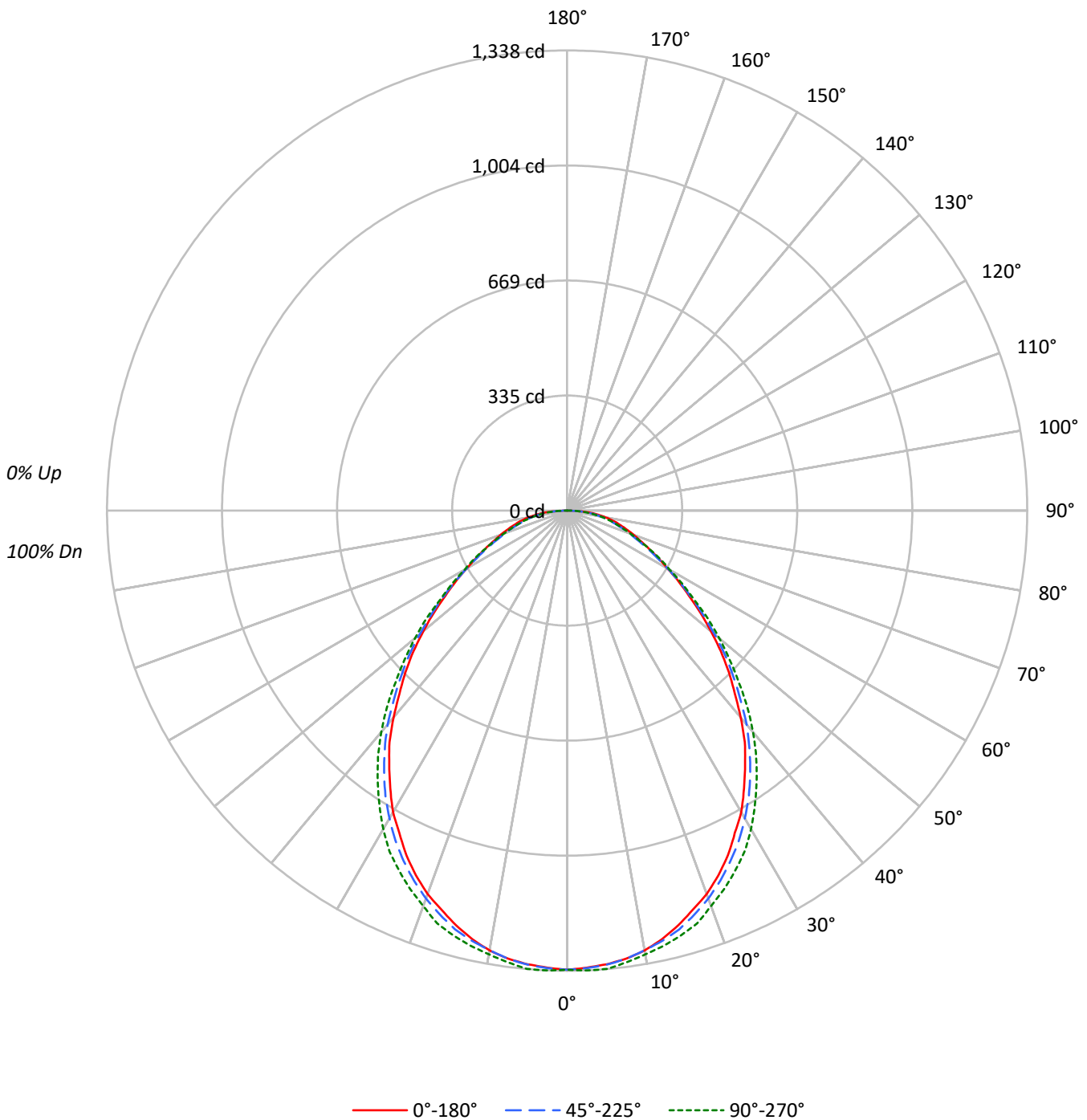
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3592	3592	3592
5°	3576	3580	3613
10°	3549	3547	3580
15°	3477	3511	3563
20°	3398	3437	3503
25°	3285	3338	3431
30°	3147	3210	3323
35°	2962	3048	3156
40°	2757	2851	2954
45°	2531	2604	2685
50°	2283	2340	2415
55°	2026	2074	2109
60°	1815	1819	1856
65°	1673	1617	1673
70°	1615	1496	1540
75°	1644	1466	1494
80°	1771	1537	1537
85°	1964	1627	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.2
10°-20°	355.2	11.9
20°-30°	518.4	17.4
30°-40°	580.4	19.5
40°-50°	528.2	17.7
50°-60°	397.6	13.3
60°-70°	259.4	8.7
70°-80°	155.6	5.2
80°-90°	58.3	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°	999.5	33.6
0°-40°	1579.9	53.0
0°-60°	2505.6	84.1
0°-90°	2979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1324	1322	1325	1330	1338	126
15°	1248	1249	1260	1271	1279	351
25°	1106	1110	1124	1145	1156	508
35°	902	910	928	950	961	564
45°	665	672	684	699	706	512
55°	432	438	442	448	450	390
65°	263	260	254	258	263	263
75°	158	153	141	142	144	168
85°	64	62	53	50	52	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.0	1335.0	1335.0	1335.0	1335.0
2.5°	1330.2	1329.5	1331.5	1335.0	1338.4
5°	1324.0	1322.0	1325.4	1330.2	1337.7
7.5°	1314.4	1314.4	1314.4	1323.3	1324.7
10°	1298.7	1300.1	1298.0	1306.9	1310.3
12.5°	1276.1	1276.8	1280.9	1289.8	1296.0
15°	1248.1	1249.4	1260.4	1270.6	1278.8
17.5°	1216.6	1221.4	1231.6	1248.1	1258.3
20°	1186.5	1191.9	1200.2	1217.9	1223.4
22.5°	1148.2	1154.3	1164.6	1180.3	1191.9
25°	1106.4	1109.8	1124.2	1144.7	1155.7
27.5°	1056.5	1064.0	1081.8	1103.0	1118.0
30°	1012.7	1016.8	1033.2	1057.8	1069.5
32.5°	957.3	969.6	983.3	1005.2	1016.1
35°	901.8	910.0	927.8	949.7	960.7
37.5°	848.5	853.2	871.0	889.5	903.2
40°	784.8	793.7	811.5	831.4	840.9
42.5°	721.2	734.2	745.8	765.7	775.9
45°	665.1	671.9	684.2	698.6	705.5
47.5°	606.2	609.7	624.0	632.9	640.4
50°	545.3	549.4	559.0	567.9	576.8
52.5°	489.2	492.7	498.8	507.0	515.9
55°	431.8	437.9	442.0	448.2	449.5
57.5°	385.2	384.5	387.3	392.1	396.9
60°	337.3	338.7	338.0	342.8	344.9
62.5°	297.6	297.0	292.9	299.7	305.2
65°	262.7	260.0	253.9	258.0	262.7
67.5°	230.6	229.2	219.0	222.4	226.5
70°	205.3	200.5	190.2	192.3	195.7
72.5°	180.6	175.2	164.9	165.6	167.6
75°	158.1	152.6	141.0	141.6	143.7
77.5°	136.8	130.0	119.7	118.4	119.7
80°	114.3	108.1	99.2	95.1	99.2
82.5°	91.0	87.6	77.3	73.2	74.6
85°	63.6	61.6	52.7	49.9	52.0
87.5°	29.4	31.5	26.7	24.6	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)