

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: P475920

Luminaire Tested: **22GR-LD5-32-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475920  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-F1-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F1 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3337.4 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

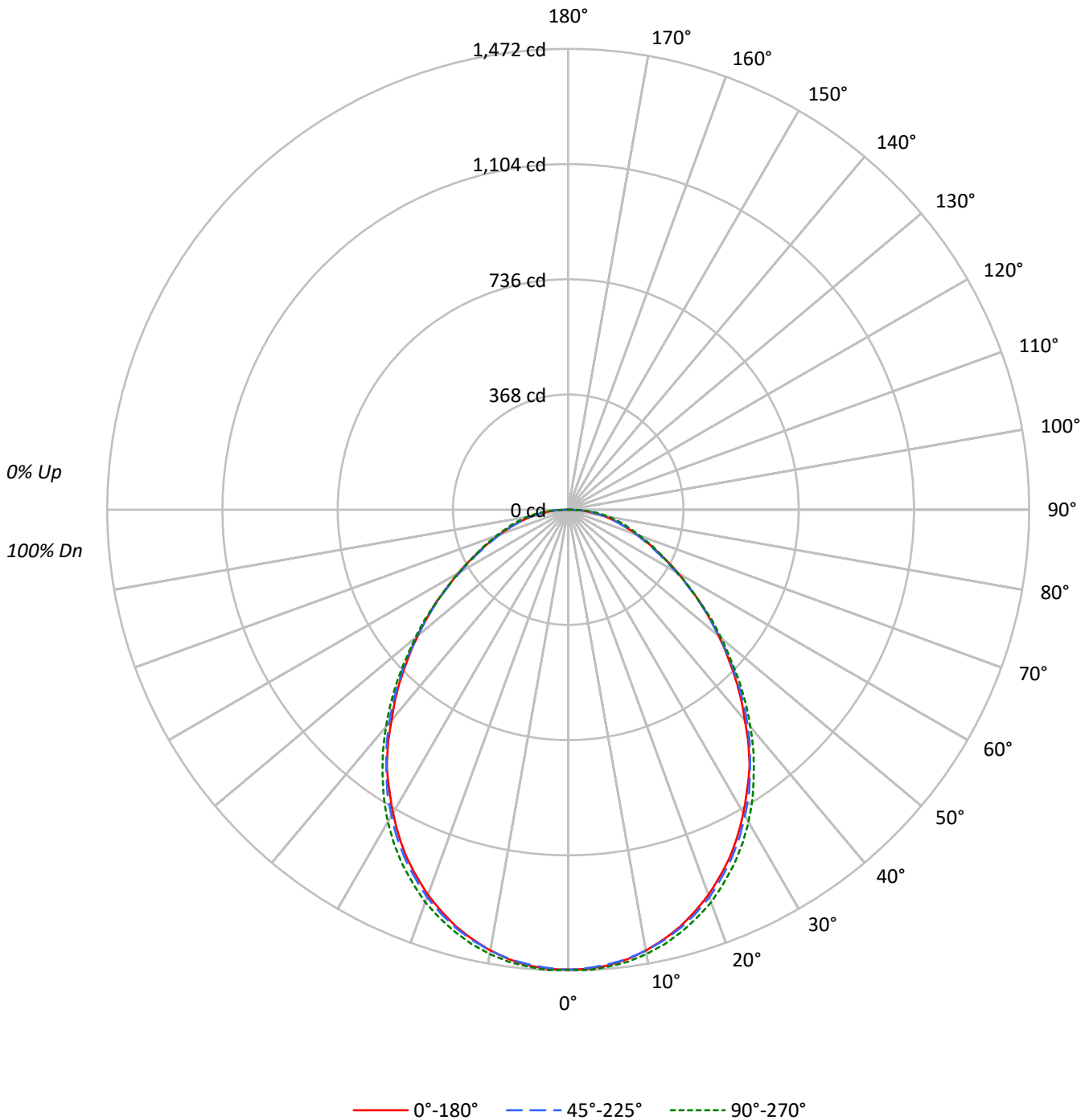
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31					31			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3954	3954	3954
5°	3946	3939	3958
10°	3907	3907	3938
15°	3843	3854	3890
20°	3748	3773	3821
25°	3632	3657	3715
30°	3477	3507	3577
35°	3315	3324	3394
40°	3080	3125	3179
45°	2860	2887	2930
50°	2628	2628	2669
55°	2410	2384	2397
60°	2181	2144	2174
65°	1990	1945	2008
70°	1838	1827	1916
75°	1771	1756	1932
80°	1788	1788	2050
85°	1868	1954	2347



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.6	4.2
10°-20°	390.0	11.7
20°-30°	567.1	17.0
30°-40°	634.8	19.0
40°-50°	585.9	17.6
50°-60°	457.2	13.7
60°-70°	309.5	9.3
70°-80°	184.8	5.5
80°-90°	69.4	2.1
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°	1095.7	32.8
0°-40°	1730.5	51.9
0°-60°	2773.6	83.1
0°-90°	3337.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1461	1458	1458	1464	1465	138
15°	1379	1379	1384	1392	1396	388
25°	1223	1223	1232	1244	1251	562
35°	1009	1008	1012	1027	1033	628
45°	752	756	759	764	770	580
55°	514	510	508	511	511	458
65°	312	310	305	311	315	311
75°	170	169	169	179	186	181
85°	60	59	63	73	76	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1469.4	1469.4	1469.4	1469.4	1469.4
2.5°	1468.0	1465.2	1465.2	1469.4	1472.2
5°	1460.9	1458.1	1458.1	1463.7	1465.2
7.5°	1448.3	1446.9	1446.9	1452.5	1456.7
10°	1430.0	1428.6	1430.0	1435.6	1441.2
12.5°	1406.0	1406.0	1408.9	1415.9	1421.5
15°	1379.3	1379.3	1383.5	1392.0	1396.2
17.5°	1345.5	1346.9	1352.6	1362.4	1366.6
20°	1308.9	1311.7	1317.4	1325.8	1334.3
22.5°	1266.7	1269.5	1275.1	1287.8	1293.4
25°	1223.1	1223.1	1231.5	1244.2	1251.2
27.5°	1172.4	1173.8	1182.3	1196.3	1203.4
30°	1118.9	1123.1	1128.8	1141.4	1151.3
32.5°	1062.6	1066.8	1073.9	1088.0	1095.0
35°	1009.1	1007.7	1012.0	1027.4	1033.1
37.5°	945.8	947.2	952.8	964.1	971.1
40°	876.8	883.9	889.5	898.0	905.0
42.5°	816.3	820.5	824.8	833.2	838.8
45°	751.6	755.8	758.6	764.2	769.9
47.5°	688.2	689.6	693.9	696.7	700.9
50°	627.7	629.1	627.7	631.9	637.6
52.5°	568.6	567.2	567.2	568.6	577.1
55°	513.7	509.5	508.1	510.9	510.9
57.5°	453.2	451.8	451.8	450.4	457.4
60°	405.3	401.1	398.3	401.1	403.9
62.5°	356.1	351.9	349.0	354.7	354.7
65°	312.5	309.6	305.4	311.0	315.3
67.5°	270.2	267.4	266.0	273.0	278.7
70°	233.6	232.2	232.2	239.3	243.5
72.5°	199.9	198.4	198.4	208.3	212.5
75°	170.3	168.9	168.9	178.7	185.8
77.5°	140.7	139.3	143.6	152.0	159.0
80°	115.4	114.0	115.4	126.7	132.3
82.5°	87.3	87.3	90.1	101.3	107.0
85°	60.5	59.1	63.3	73.2	76.0
87.5°	31.0	32.4	33.8	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)