

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: P476040

Luminaire Tested: **22GR-LD5-32-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476040  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3174.8 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

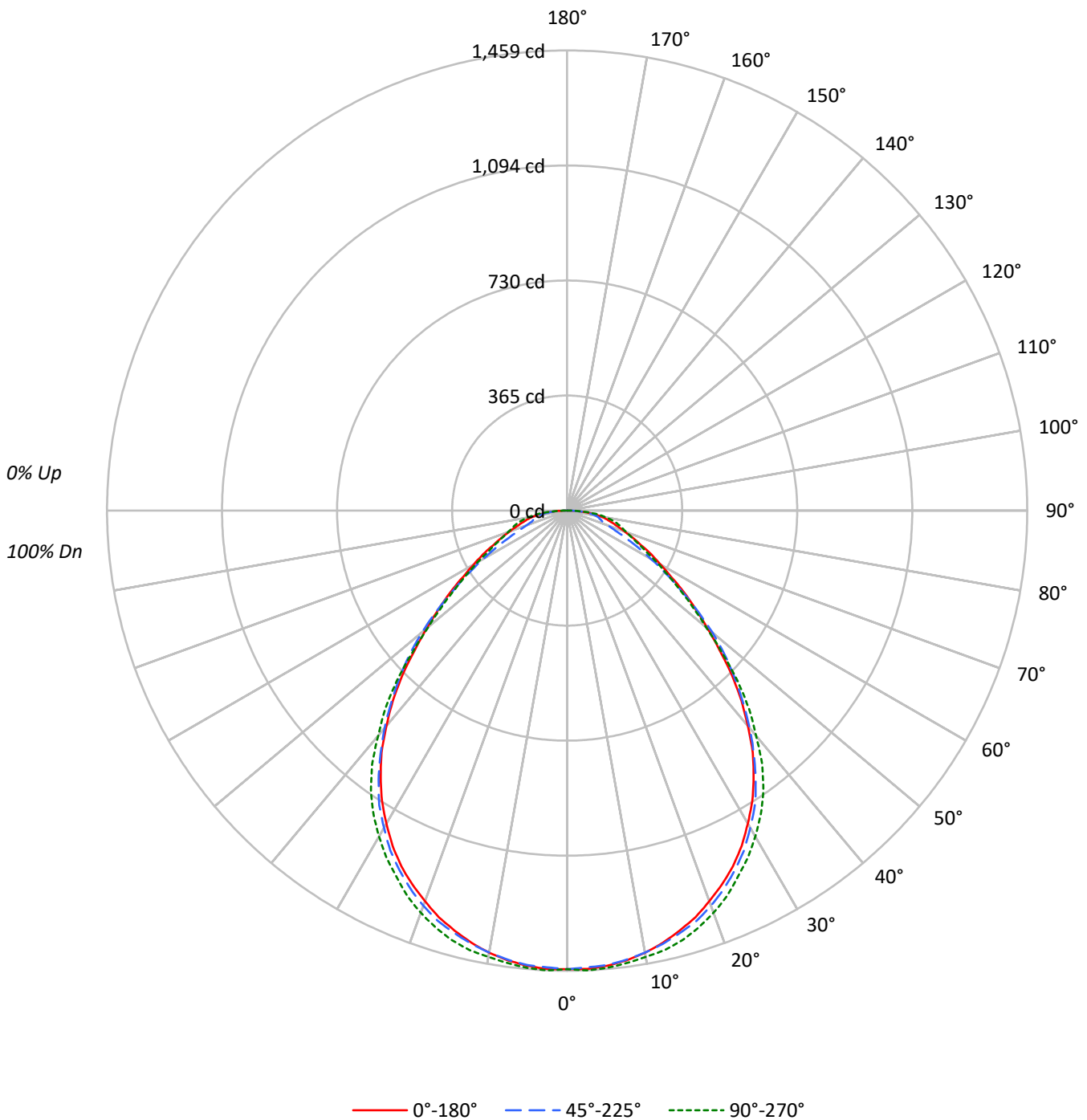
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

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

	0°	45°	90°
0°	3912	3912	3912
5°	3914	3908	3931
10°	3890	3888	3926
15°	3841	3861	3929
20°	3774	3819	3886
25°	3694	3736	3804
30°	3560	3609	3707
35°	3386	3424	3563
40°	3130	3164	3275
45°	2812	2862	2907
50°	2431	2517	2406
55°	2122	2066	2038
60°	1837	1654	1765
65°	1642	1298	1586
70°	1522	1075	1564
75°	1520	1136	1736
80°	1684	1430	1957
85°	1757	1550	2214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	4.3
10°-20°	391.9	12.3
20°-30°	579.6	18.3
30°-40°	654.0	20.6
40°-50°	576.5	18.2
50°-60°	395.5	12.5
60°-70°	233.4	7.4
70°-80°	145.6	4.6
80°-90°	60.7	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°	1109.0	34.9
0°-40°	1763.0	55.5
0°-60°	2735.1	86.1
0°-90°	3174.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3174.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1449	1446	1447	1452	1455	137
15°	1379	1380	1386	1403	1410	389
25°	1244	1249	1258	1274	1281	571
35°	1031	1039	1042	1068	1085	642
45°	739	742	752	757	764	568
55°	452	441	440	426	434	406
65°	258	227	204	236	249	260
75°	146	132	109	153	167	157
85°	57	53	50	66	72	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1453.9	1453.9	1453.9	1453.9	1453.9
2.5°	1454.7	1451.0	1449.6	1455.4	1459.2
5°	1448.8	1445.9	1446.6	1451.7	1455.4
7.5°	1438.4	1436.3	1436.3	1443.5	1447.2
10°	1423.6	1423.0	1423.0	1431.8	1436.9
12.5°	1403.1	1403.6	1406.6	1418.5	1427.3
15°	1378.6	1380.0	1386.0	1403.1	1410.3
17.5°	1352.0	1352.0	1363.8	1377.1	1386.0
20°	1318.0	1320.2	1333.5	1348.3	1357.1
22.5°	1283.2	1286.9	1298.1	1315.1	1323.1
25°	1244.1	1248.6	1258.2	1274.4	1281.1
27.5°	1198.4	1204.2	1214.6	1226.3	1240.4
30°	1145.8	1154.8	1161.4	1177.7	1193.1
32.5°	1092.6	1100.8	1108.3	1125.3	1142.9
35°	1030.6	1039.4	1042.4	1067.6	1084.6
37.5°	967.1	970.8	972.2	997.4	1015.8
40°	891.1	898.3	900.6	920.6	932.3
42.5°	817.7	820.9	825.2	840.0	854.1
45°	738.8	742.5	752.1	756.6	764.0
47.5°	656.1	667.2	678.2	664.1	664.9
50°	580.6	589.6	601.3	574.8	574.8
52.5°	513.4	517.9	518.6	496.6	500.9
55°	452.2	441.0	440.3	425.6	434.4
57.5°	390.8	376.1	370.9	366.4	376.7
60°	341.3	314.7	307.3	314.0	328.0
62.5°	300.7	266.7	252.6	269.6	282.3
65°	257.9	226.8	203.9	235.8	249.1
67.5°	224.6	195.1	165.6	210.5	220.1
70°	193.5	170.7	136.6	191.4	198.8
72.5°	168.5	150.7	118.3	172.8	181.8
75°	146.2	131.6	109.3	152.9	167.0
77.5°	128.6	112.2	102.0	132.2	149.2
80°	108.7	92.3	92.3	110.8	126.3
82.5°	85.6	72.3	74.7	90.1	101.3
85°	56.9	53.2	50.2	65.7	71.7
87.5°	28.7	29.5	26.6	34.0	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)