

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: P475944

Luminaire Tested: **22GR-LD5-32-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475944
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

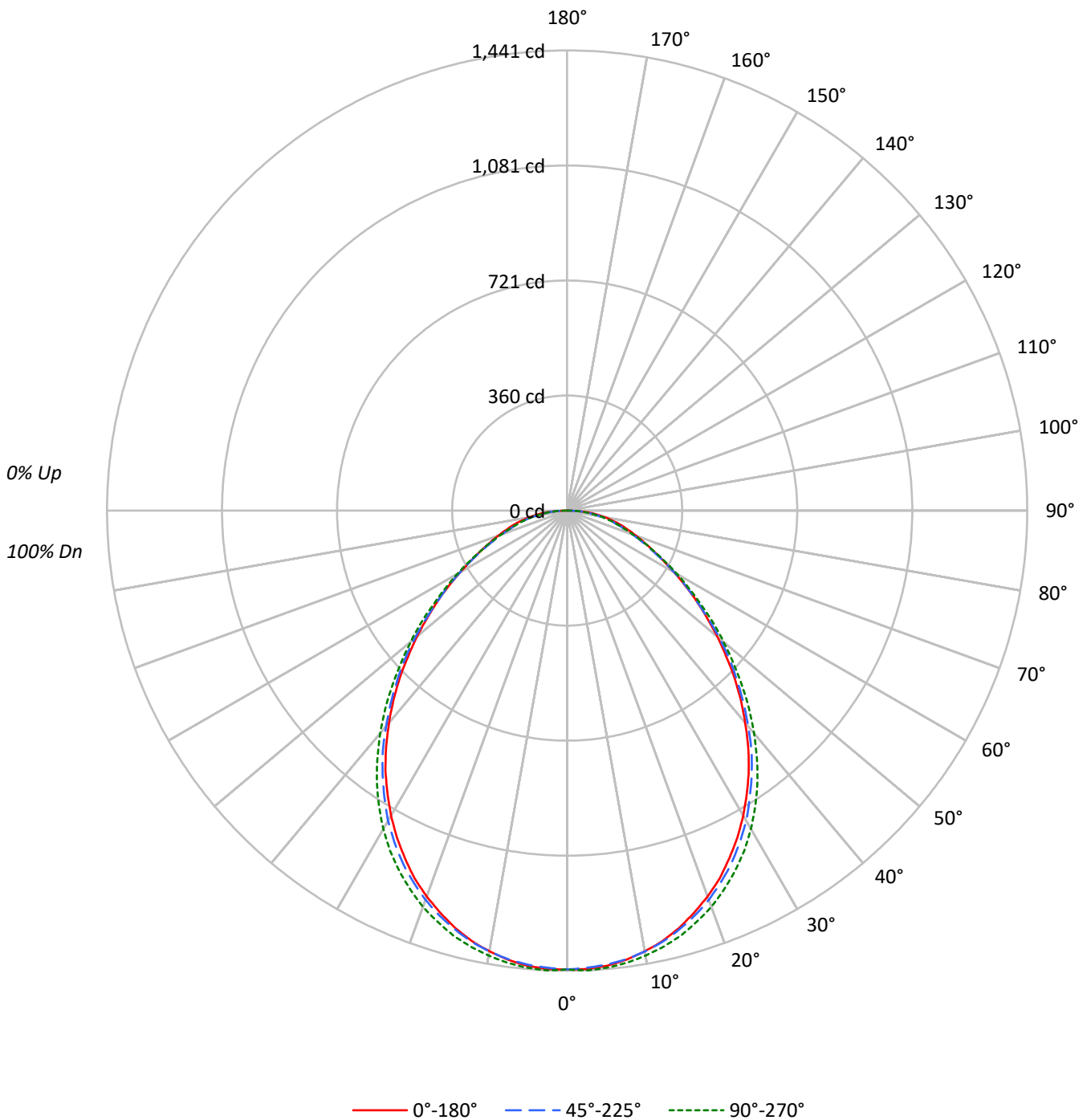
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3866	3866	3866
5°	3865	3854	3881
10°	3829	3831	3866
15°	3770	3783	3838
20°	3682	3714	3782
25°	3567	3617	3696
30°	3426	3485	3577
35°	3258	3311	3413
40°	3047	3097	3199
45°	2821	2864	2947
50°	2569	2610	2677
55°	2320	2327	2394
60°	2081	2088	2138
65°	1896	1856	1900
70°	1804	1703	1733
75°	1815	1642	1650
80°	1884	1660	1647
85°	2066	1757	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	4.1
10°-20°	383.5	11.7
20°-30°	561.3	17.1
30°-40°	631.0	19.3
40°-50°	581.9	17.8
50°-60°	448.5	13.7
60°-70°	296.0	9.0
70°-80°	172.2	5.3
80°-90°	62.7	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°	1080.5	33.0
0°-40°	1711.5	52.3
0°-60°	2742.0	83.8
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1431	1428	1427	1434	1437	136
15°	1353	1353	1358	1370	1378	381
25°	1202	1208	1218	1235	1245	553
35°	992	996	1008	1028	1039	618
45°	741	742	753	768	774	571
55°	494	494	496	504	510	444
65°	298	296	292	294	298	299
75°	175	167	158	155	159	184
85°	67	66	57	52	54	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1436.8	1433.8	1433.0	1438.4	1441.4
5°	1430.8	1427.7	1426.9	1433.8	1436.8
7.5°	1418.7	1416.3	1417.1	1424.7	1428.5
10°	1401.2	1400.4	1402.0	1410.3	1414.9
12.5°	1380.7	1379.9	1382.9	1392.0	1398.2
15°	1353.4	1353.4	1357.8	1370.1	1377.7
17.5°	1320.7	1322.9	1329.7	1342.0	1350.2
20°	1285.7	1288.1	1297.1	1310.8	1320.7
22.5°	1246.9	1250.1	1259.2	1275.8	1284.3
25°	1201.5	1207.5	1218.2	1234.9	1244.7
27.5°	1154.3	1161.1	1171.0	1191.7	1200.7
30°	1102.7	1107.3	1121.7	1140.6	1151.3
32.5°	1048.0	1052.6	1064.7	1087.6	1096.6
35°	991.7	996.4	1007.8	1028.3	1039.0
37.5°	931.1	934.9	948.5	964.4	975.9
40°	867.4	872.6	881.6	900.7	910.6
42.5°	805.1	807.3	817.1	836.2	843.7
45°	741.2	742.0	752.6	767.7	774.5
47.5°	675.1	676.7	689.6	698.6	705.4
50°	613.6	614.4	623.5	631.9	639.5
52.5°	552.1	552.1	556.8	565.8	575.6
55°	494.5	493.7	495.9	504.3	510.3
57.5°	439.8	439.0	442.0	447.2	451.9
60°	386.6	385.0	388.0	391.2	397.2
62.5°	339.6	341.0	337.1	341.8	346.4
65°	297.8	296.2	291.5	293.9	298.4
67.5°	262.0	259.8	252.2	253.6	259.0
70°	229.3	224.8	216.4	216.4	220.2
72.5°	199.7	195.1	184.4	185.2	186.9
75°	174.6	167.2	157.9	154.9	158.7
77.5°	147.3	141.2	132.8	130.6	132.2
80°	121.6	116.9	107.1	104.1	106.3
82.5°	96.4	92.6	81.2	79.0	79.8
85°	66.9	66.1	56.9	52.4	53.8
87.5°	35.8	36.4	29.5	26.5	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)