

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: P475896

Luminaire Tested: **22GR-LD5-32-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475896
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3272.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

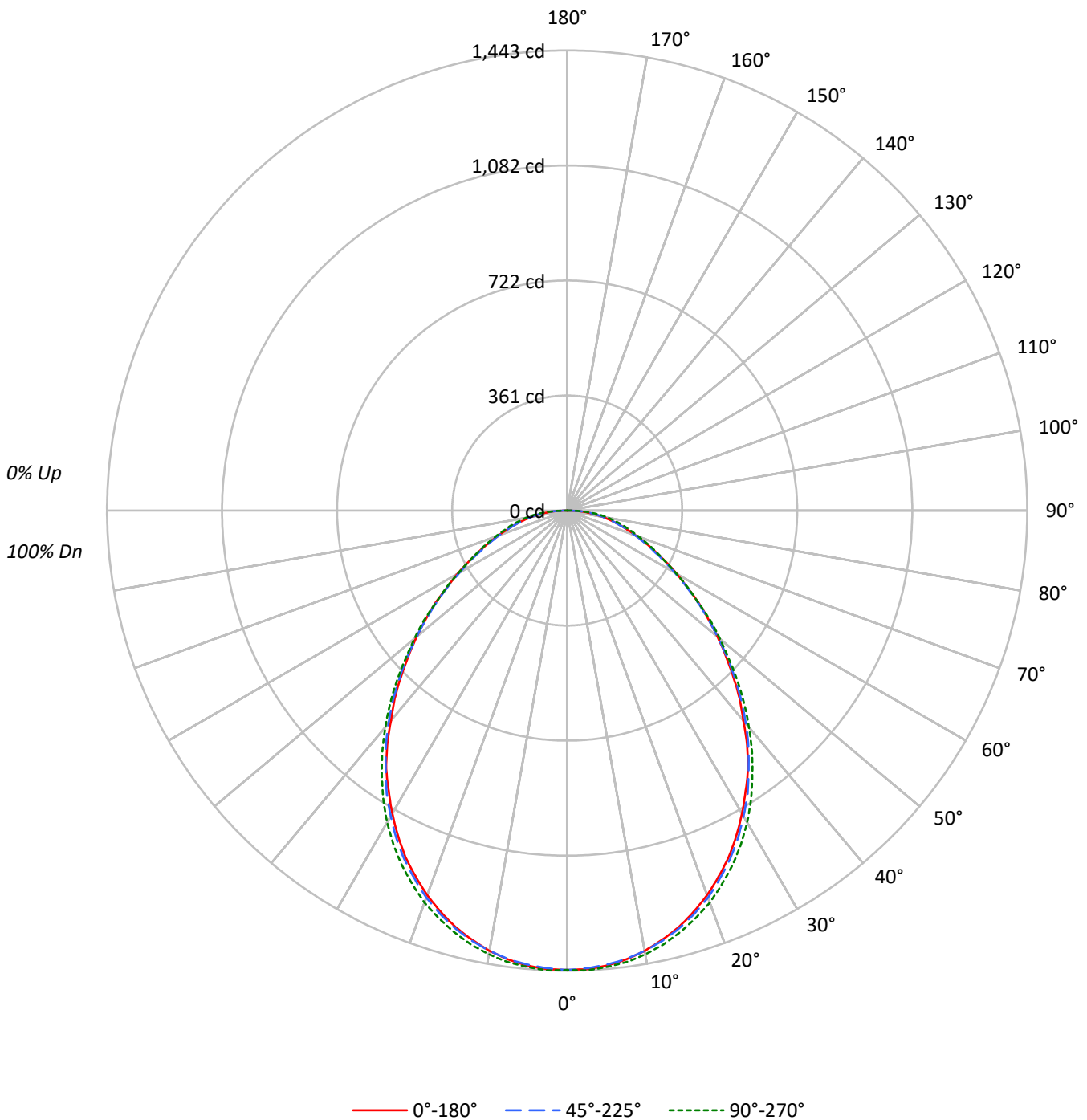
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3877	3877	3877
5°	3869	3861	3880
10°	3831	3831	3861
15°	3767	3779	3813
20°	3675	3698	3746
25°	3560	3585	3642
30°	3409	3439	3507
35°	3250	3259	3327
40°	3020	3064	3117
45°	2804	2830	2872
50°	2576	2576	2617
55°	2363	2337	2350
60°	2139	2102	2131
65°	1950	1906	1968
70°	1803	1792	1878
75°	1736	1722	1893
80°	1753	1753	2010
85°	1831	1917	2300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	4.2
10°-20°	382.4	11.7
20°-30°	556.0	17.0
30°-40°	622.4	19.0
40°-50°	574.4	17.6
50°-60°	448.3	13.7
60°-70°	303.4	9.3
70°-80°	181.2	5.5
80°-90°	68.1	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°	1074.2	32.8
0°-40°	1696.6	51.9
0°-60°	2719.3	83.1
0°-90°	3272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1432	1430	1430	1435	1436	136
15°	1352	1352	1356	1365	1369	380
25°	1199	1199	1207	1220	1227	551
35°	989	988	992	1007	1013	615
45°	737	741	744	749	755	568
55°	504	500	498	501	501	449
65°	306	304	299	305	309	305
75°	167	166	166	175	182	177
85°	59	58	62	72	74	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1439.2	1436.4	1436.4	1440.6	1443.3
5°	1432.3	1429.5	1429.5	1435.0	1436.4
7.5°	1419.9	1418.5	1418.5	1424.0	1428.1
10°	1401.9	1400.5	1401.9	1407.4	1413.0
12.5°	1378.5	1378.5	1381.2	1388.1	1393.6
15°	1352.3	1352.3	1356.4	1364.7	1368.8
17.5°	1319.1	1320.5	1326.0	1335.7	1339.8
20°	1283.3	1286.0	1291.5	1299.8	1308.1
22.5°	1241.9	1244.6	1250.1	1262.6	1268.1
25°	1199.1	1199.1	1207.4	1219.8	1226.7
27.5°	1149.4	1150.8	1159.1	1172.9	1179.8
30°	1097.0	1101.1	1106.6	1119.1	1128.7
32.5°	1041.8	1045.9	1052.8	1066.6	1073.5
35°	989.4	988.0	992.1	1007.3	1012.8
37.5°	927.3	928.6	934.2	945.2	952.1
40°	859.6	866.5	872.1	880.3	887.2
42.5°	800.3	804.5	808.6	816.9	822.4
45°	736.8	741.0	743.7	749.3	754.8
47.5°	674.7	676.1	680.3	683.0	687.2
50°	615.4	616.8	615.4	619.6	625.1
52.5°	557.5	556.1	556.1	557.5	565.7
55°	503.6	499.5	498.1	500.9	500.9
57.5°	444.3	442.9	442.9	441.6	448.5
60°	397.4	393.3	390.5	393.3	396.0
62.5°	349.1	345.0	342.2	347.7	347.7
65°	306.3	303.6	299.4	304.9	309.1
67.5°	264.9	262.2	260.8	267.7	273.2
70°	229.1	227.7	227.7	234.6	238.7
72.5°	195.9	194.6	194.6	204.2	208.4
75°	167.0	165.6	165.6	175.2	182.1
77.5°	138.0	136.6	140.7	149.0	155.9
80°	113.1	111.8	113.1	124.2	129.7
82.5°	85.6	85.6	88.3	99.3	104.9
85°	59.3	58.0	62.1	71.8	74.5
87.5°	30.4	31.7	33.1	38.6	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)