

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: P476063

Luminaire Tested: **22GR-LD5-28-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476063
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2809.8 lumens
Efficiency: N/A
Efficacy: 133.8 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

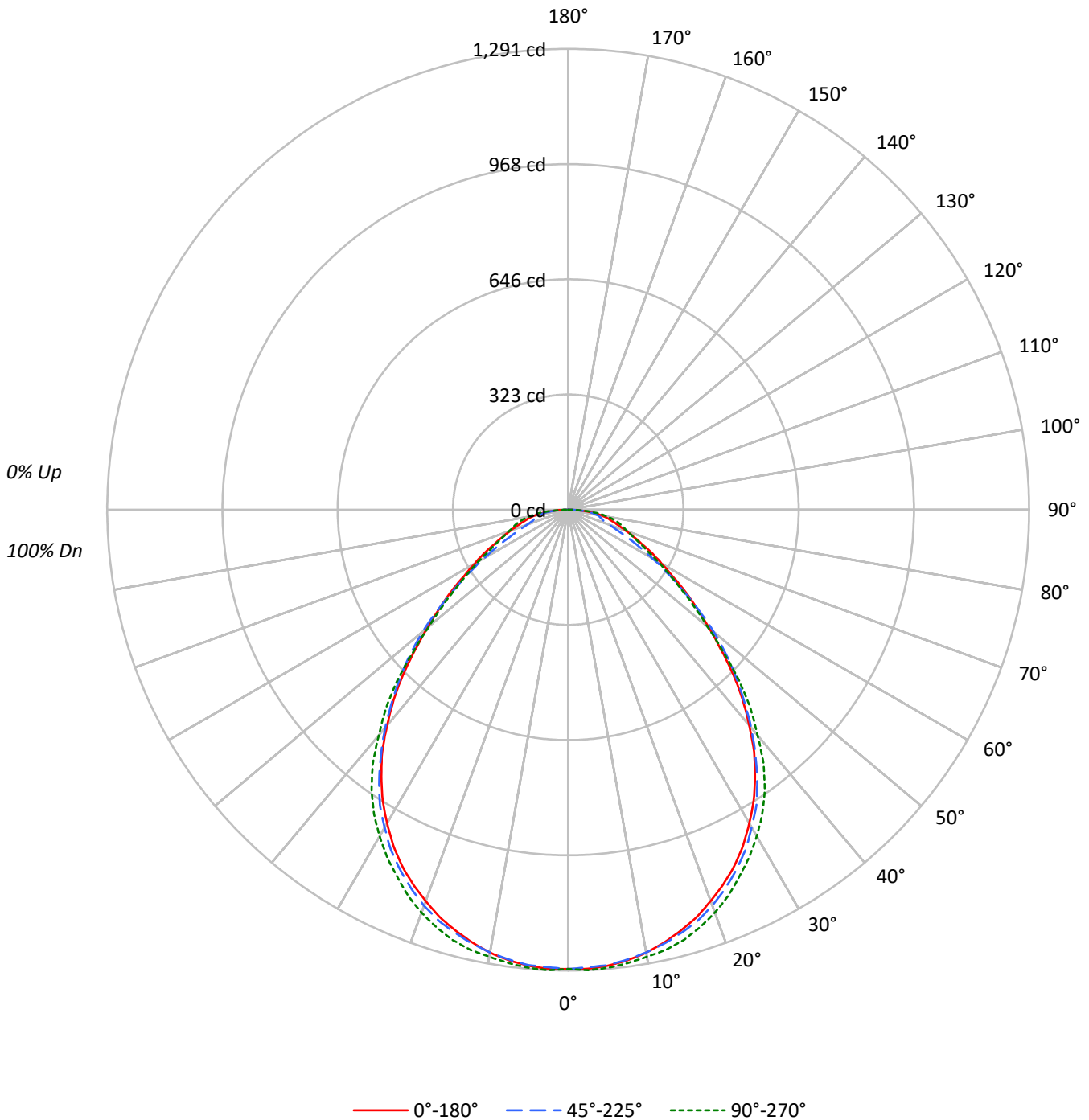
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3463	3463	3463
5°	3464	3459	3480
10°	3443	3441	3475
15°	3399	3417	3477
20°	3340	3380	3440
25°	3269	3306	3366
30°	3151	3194	3281
35°	2997	3031	3153
40°	2770	2800	2898
45°	2488	2533	2573
50°	2151	2228	2130
55°	1878	1828	1804
60°	1626	1464	1562
65°	1453	1149	1403
70°	1348	951	1385
75°	1345	1005	1537
80°	1491	1266	1733
85°	1553	1374	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	4.3
10°-20°	346.8	12.3
20°-30°	512.9	18.3
30°-40°	578.8	20.6
40°-50°	510.3	18.2
50°-60°	350.0	12.5
60°-70°	206.6	7.4
70°-80°	128.9	4.6
80°-90°	53.7	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°	981.5	34.9
0°-40°	1560.4	55.5
0°-60°	2420.7	86.1
0°-90°	2809.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1282	1280	1280	1285	1288	122
15°	1220	1221	1227	1242	1248	344
25°	1101	1105	1114	1128	1134	506
35°	912	920	923	945	960	568
45°	654	657	666	670	676	502
55°	400	390	390	377	384	359
65°	228	201	180	209	220	230
75°	129	116	97	135	148	139
85°	50	47	44	58	64	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.8	1286.8	1286.8	1286.8	1286.8
2.5°	1287.5	1284.2	1283.0	1288.2	1291.4
5°	1282.3	1279.7	1280.4	1284.9	1288.2
7.5°	1273.1	1271.2	1271.2	1277.6	1280.9
10°	1260.0	1259.4	1259.4	1267.2	1271.7
12.5°	1241.8	1242.3	1244.9	1255.5	1263.2
15°	1220.2	1221.4	1226.7	1241.8	1248.2
17.5°	1196.6	1196.6	1207.0	1218.8	1226.7
20°	1166.5	1168.4	1180.2	1193.3	1201.1
22.5°	1135.7	1139.0	1148.9	1163.9	1171.0
25°	1101.1	1105.1	1113.6	1127.9	1133.8
27.5°	1060.6	1065.8	1075.0	1085.4	1097.8
30°	1014.1	1022.0	1027.9	1042.3	1056.0
32.5°	967.0	974.3	980.9	995.9	1011.5
35°	912.2	920.0	922.6	944.9	959.9
37.5°	855.9	859.2	860.4	882.8	899.0
40°	788.6	795.0	797.1	814.8	825.1
42.5°	723.8	726.5	730.3	743.5	755.9
45°	653.9	657.1	665.6	669.6	676.2
47.5°	580.7	590.5	600.2	587.8	588.5
50°	513.9	521.8	532.2	508.7	508.7
52.5°	454.4	458.3	459.0	439.5	443.3
55°	400.2	390.3	389.6	376.7	384.5
57.5°	345.9	332.9	328.2	324.2	333.4
60°	302.1	278.6	272.0	277.9	290.3
62.5°	266.1	236.0	223.5	238.6	249.8
65°	228.2	200.7	180.5	208.7	220.4
67.5°	198.8	172.7	146.6	186.3	194.8
70°	171.3	151.0	120.9	169.4	176.0
72.5°	149.1	133.4	104.7	153.0	160.9
75°	129.4	116.4	96.7	135.3	147.8
77.5°	113.8	99.3	90.3	117.0	132.0
80°	96.2	81.7	81.7	98.1	111.8
82.5°	75.8	64.0	66.1	79.8	89.6
85°	50.3	47.1	44.5	58.1	63.5
87.5°	25.4	26.1	23.5	30.1	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)