

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: P476041

Luminaire Tested: **22GR-LD5-36-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476041
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-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: 3572.5 lumens
Efficiency: N/A
Efficacy: 125.3 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

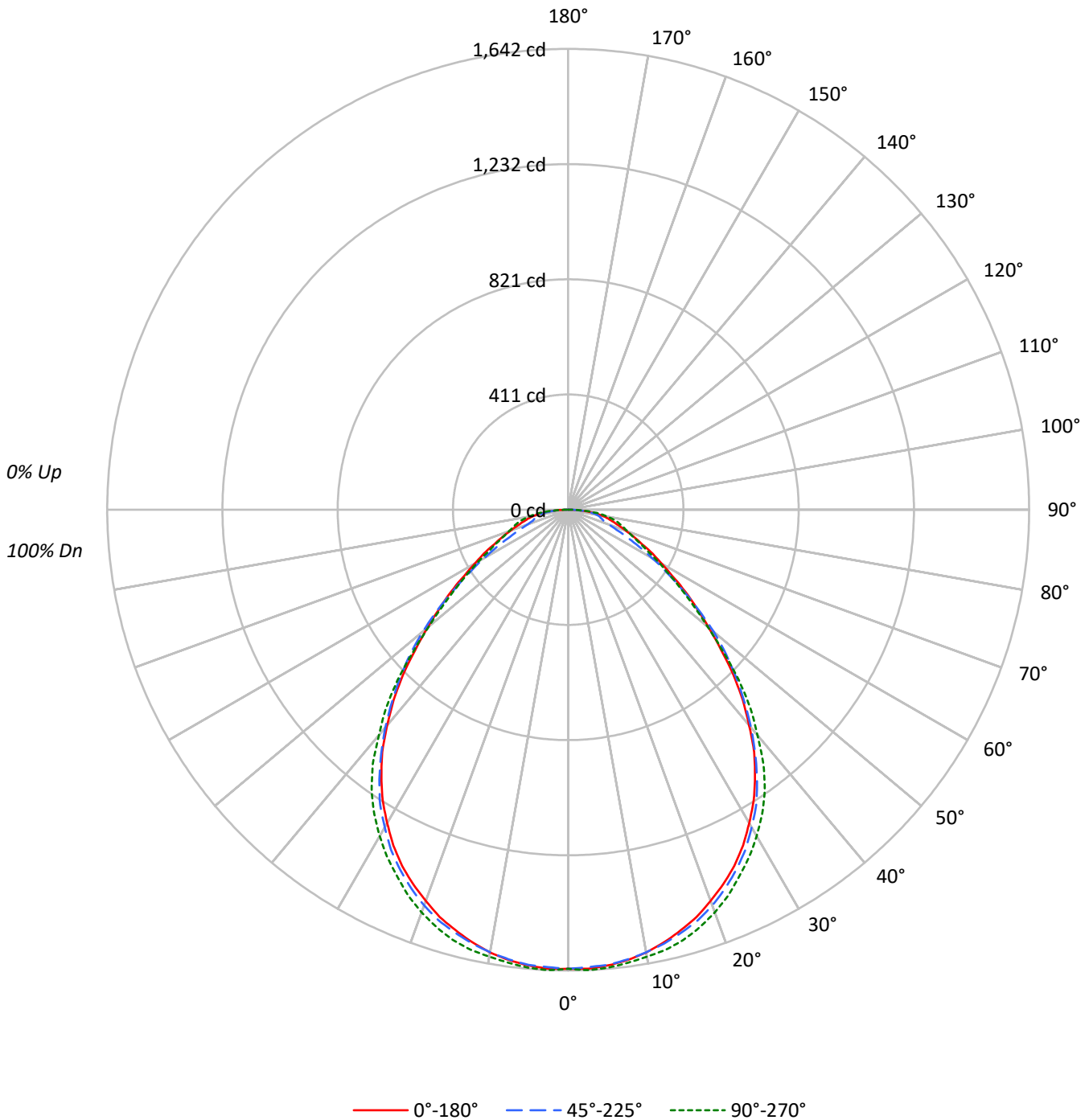
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4402	4402	4402
5°	4404	4397	4424
10°	4377	4376	4418
15°	4322	4345	4421
20°	4247	4297	4373
25°	4157	4204	4280
30°	4006	4061	4172
35°	3810	3853	4009
40°	3522	3560	3685
45°	3164	3221	3272
50°	2735	2833	2707
55°	2387	2324	2293
60°	2067	1861	1986
65°	1848	1461	1785
70°	1714	1210	1760
75°	1710	1279	1954
80°	1895	1609	2202
85°	1976	1744	2492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	4.3
10°-20°	441.0	12.3
20°-30°	652.2	18.3
30°-40°	735.9	20.6
40°-50°	648.8	18.2
50°-60°	445.0	12.5
60°-70°	262.6	7.4
70°-80°	163.9	4.6
80°-90°	68.3	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°	1247.9	34.9
0°-40°	1983.9	55.5
0°-60°	3077.7	86.1
0°-90°	3572.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1630	1627	1628	1634	1638	155
15°	1551	1553	1560	1579	1587	437
25°	1400	1405	1416	1434	1442	643
35°	1160	1170	1173	1201	1220	723
45°	831	836	846	851	860	639
55°	509	496	495	479	489	456
65°	290	255	229	265	280	292
75°	164	148	123	172	188	177
85°	64	60	56	74	81	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.0	1636.0	1636.0	1636.0	1636.0
2.5°	1636.9	1632.7	1631.2	1637.8	1641.9
5°	1630.3	1627.0	1627.9	1633.6	1637.8
7.5°	1618.6	1616.2	1616.2	1624.3	1628.5
10°	1601.9	1601.3	1601.3	1611.1	1616.9
12.5°	1578.8	1579.5	1582.8	1596.2	1606.1
15°	1551.3	1552.9	1559.7	1578.8	1587.0
17.5°	1521.4	1521.4	1534.6	1549.6	1559.7
20°	1483.1	1485.5	1500.5	1517.2	1527.1
22.5°	1444.0	1448.1	1460.7	1479.8	1488.8
25°	1400.0	1405.0	1415.8	1434.1	1441.5
27.5°	1348.5	1355.1	1366.7	1379.9	1395.8
30°	1289.3	1299.4	1306.9	1325.2	1342.6
32.5°	1229.5	1238.7	1247.1	1266.2	1286.0
35°	1159.7	1169.6	1172.9	1201.3	1220.5
37.5°	1088.3	1092.4	1094.0	1122.3	1143.0
40°	1002.7	1010.8	1013.5	1035.9	1049.1
42.5°	920.2	923.7	928.5	945.3	961.1
45°	831.3	835.5	846.3	851.3	859.7
47.5°	738.3	750.8	763.1	747.3	748.2
50°	653.3	663.5	676.7	646.7	646.7
52.5°	577.7	582.7	583.6	558.8	563.6
55°	508.8	496.3	495.4	478.9	488.8
57.5°	439.7	423.2	417.3	412.2	423.9
60°	384.1	354.2	345.8	353.3	369.1
62.5°	338.3	300.1	284.2	303.4	317.7
65°	290.2	255.2	229.4	265.3	280.3
67.5°	252.8	219.5	186.3	236.9	247.7
70°	217.8	192.0	153.8	215.4	223.7
72.5°	189.6	169.6	133.1	194.5	204.6
75°	164.5	148.0	123.0	172.0	187.9
77.5°	144.7	126.3	114.8	148.7	167.8
80°	122.3	103.8	103.8	124.7	142.1
82.5°	96.4	81.4	84.0	101.4	114.0
85°	64.0	59.8	56.5	73.9	80.7
87.5°	32.3	33.2	29.9	38.3	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)