

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: P475921

Luminaire Tested: **22GR-LD5-36-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475921
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F1-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ F1 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.5 lumens
Efficiency: N/A
Efficacy: 131.8 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

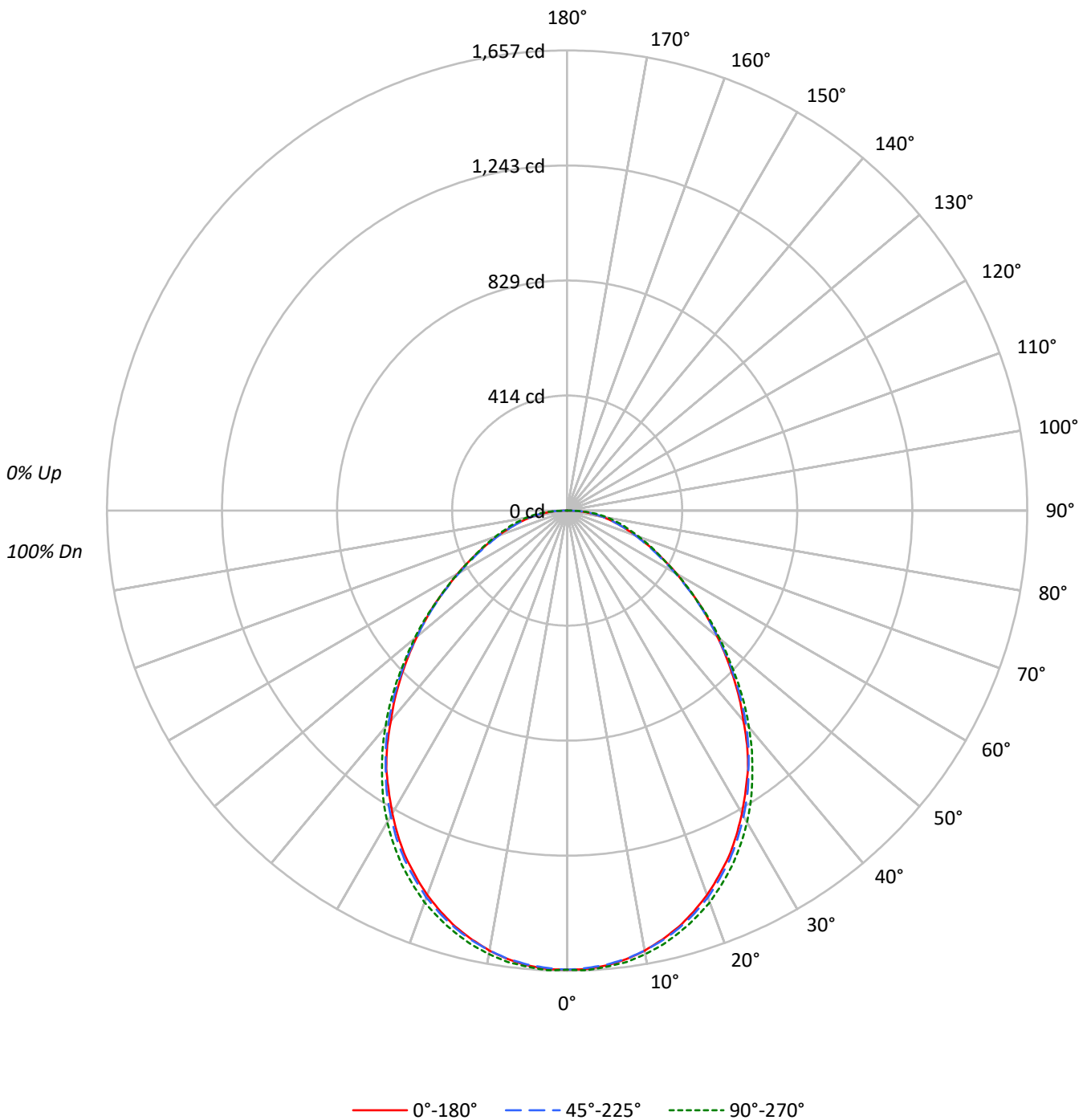
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4449	4449	4449
5°	4441	4432	4454
10°	4397	4397	4432
15°	4324	4337	4377
20°	4218	4245	4300
25°	4086	4115	4181
30°	3912	3947	4025
35°	3731	3741	3819
40°	3466	3516	3577
45°	3218	3248	3297
50°	2957	2957	3003
55°	2712	2682	2697
60°	2455	2412	2446
65°	2239	2188	2259
70°	2068	2056	2156
75°	1992	1976	2174
80°	2013	2013	2307
85°	2103	2201	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	4.2
10°-20°	438.9	11.7
20°-30°	638.2	17.0
30°-40°	714.3	19.0
40°-50°	659.3	17.6
50°-60°	514.5	13.7
60°-70°	348.3	9.3
70°-80°	208.0	5.5
80°-90°	78.1	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°	1233.0	32.8
0°-40°	1947.3	51.9
0°-60°	3121.1	83.1
0°-90°	3755.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1644	1641	1641	1647	1649	156
15°	1552	1552	1557	1566	1571	437
25°	1376	1376	1386	1400	1408	632
35°	1136	1134	1139	1156	1162	706
45°	846	850	854	860	866	652
55°	578	573	572	575	575	516
65°	352	348	344	350	355	350
75°	192	190	190	201	209	203
85°	68	66	71	82	86	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.4	1653.4	1653.4	1653.4	1653.4
2.5°	1651.9	1648.7	1648.7	1653.4	1656.6
5°	1643.9	1640.8	1640.8	1647.1	1648.7
7.5°	1629.7	1628.1	1628.1	1634.4	1639.2
10°	1609.1	1607.5	1609.1	1615.4	1621.8
12.5°	1582.2	1582.2	1585.3	1593.3	1599.6
15°	1552.1	1552.1	1556.8	1566.3	1571.1
17.5°	1514.1	1515.7	1522.0	1533.1	1537.8
20°	1472.9	1476.1	1482.4	1491.9	1501.4
22.5°	1425.4	1428.5	1434.9	1449.1	1455.5
25°	1376.3	1376.3	1385.8	1400.0	1408.0
27.5°	1319.3	1320.8	1330.4	1346.2	1354.1
30°	1259.1	1263.8	1270.2	1284.4	1295.5
32.5°	1195.7	1200.5	1208.4	1224.2	1232.2
35°	1135.6	1134.0	1138.7	1156.1	1162.5
37.5°	1064.3	1065.9	1072.2	1084.9	1092.8
40°	986.7	994.6	1000.9	1010.4	1018.4
42.5°	918.6	923.3	928.1	937.6	943.9
45°	845.7	850.5	853.6	860.0	866.3
47.5°	774.5	776.0	780.8	784.0	788.7
50°	706.4	707.9	706.4	711.1	717.4
52.5°	639.8	638.3	638.3	639.8	649.3
55°	578.1	573.3	571.7	574.9	574.9
57.5°	510.0	508.4	508.4	506.8	514.7
60°	456.1	451.4	448.2	451.4	454.5
62.5°	400.7	395.9	392.8	399.1	399.1
65°	351.6	348.4	343.7	350.0	354.8
67.5°	304.1	300.9	299.3	307.2	313.6
70°	262.9	261.3	261.3	269.2	274.0
72.5°	224.9	223.3	223.3	234.4	239.1
75°	191.6	190.1	190.1	201.1	209.1
77.5°	158.4	156.8	161.5	171.0	179.0
80°	129.9	128.3	129.9	142.5	148.9
82.5°	98.2	98.2	101.4	114.0	120.4
85°	68.1	66.5	71.3	82.4	85.5
87.5°	34.8	36.4	38.0	44.3	44.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)