

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: P476053

Luminaire Tested: **22GR-LD5-36-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476053
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.4 lumens
Efficiency: N/A
Efficacy: 127.7 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

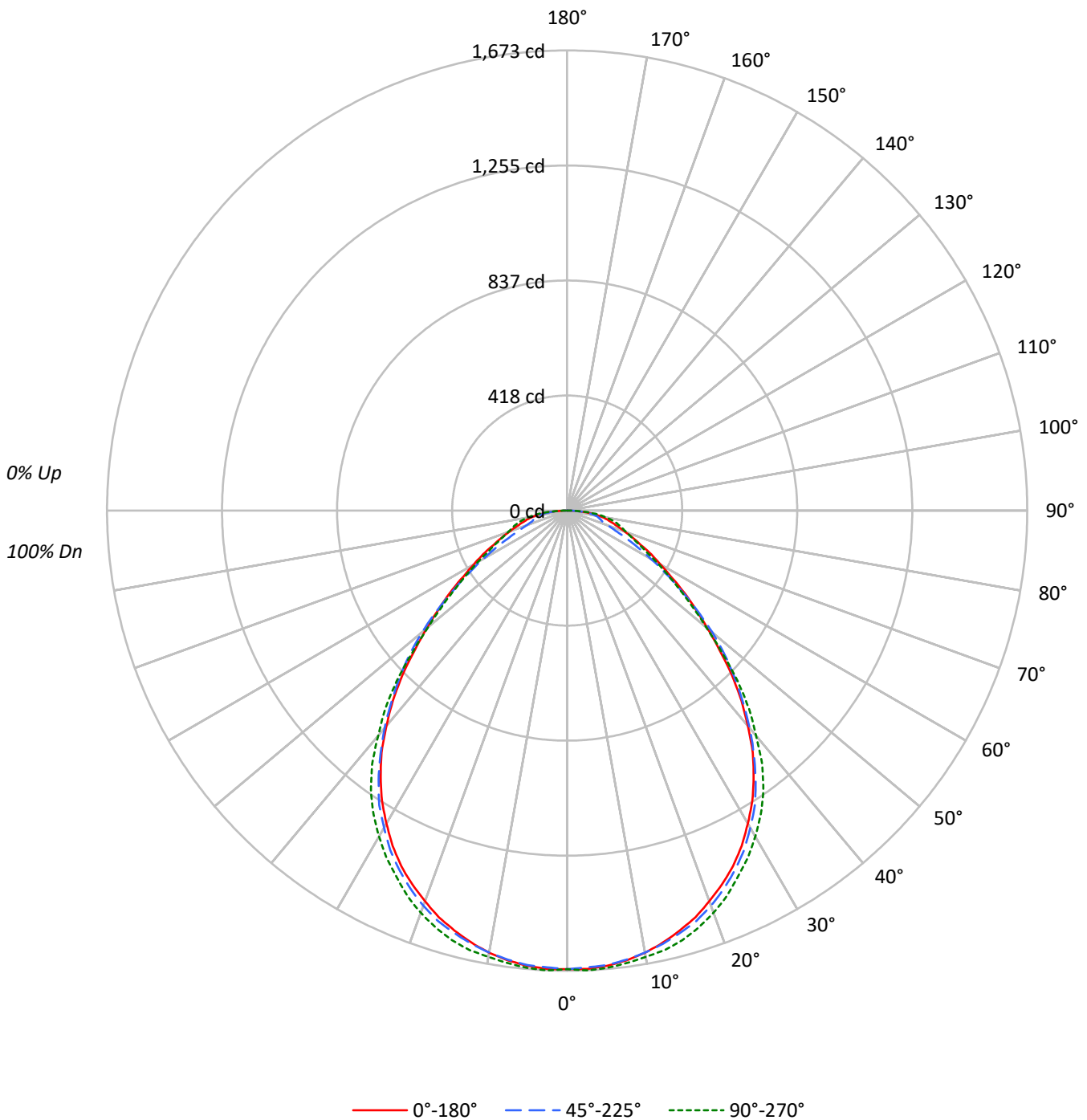
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4486	4486	4486
5°	4488	4481	4508
10°	4460	4459	4502
15°	4404	4428	4505
20°	4328	4379	4456
25°	4236	4284	4361
30°	4082	4138	4251
35°	3882	3926	4085
40°	3589	3628	3755
45°	3224	3282	3334
50°	2787	2887	2759
55°	2433	2368	2337
60°	2106	1897	2024
65°	1883	1489	1819
70°	1746	1233	1794
75°	1744	1303	1990
80°	1931	1640	2244
85°	2013	1778	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	4.3
10°-20°	449.3	12.3
20°-30°	664.5	18.3
30°-40°	749.9	20.6
40°-50°	661.1	18.2
50°-60°	453.5	12.5
60°-70°	267.6	7.4
70°-80°	167.0	4.6
80°-90°	69.6	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°	1271.7	34.9
0°-40°	2021.6	55.5
0°-60°	3136.2	86.1
0°-90°	3640.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1661	1658	1659	1665	1669	158
15°	1581	1582	1589	1609	1617	446
25°	1427	1432	1443	1461	1469	655
35°	1182	1192	1195	1224	1244	736
45°	847	851	862	868	876	651
55°	518	506	505	488	498	465
65°	296	260	234	270	286	298
75°	168	151	125	175	191	180
85°	65	61	58	75	82	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.1	1667.1	1667.1	1667.1	1667.1
2.5°	1668.0	1663.7	1662.2	1668.9	1673.1
5°	1661.3	1657.9	1658.8	1664.6	1668.9
7.5°	1649.4	1646.9	1646.9	1655.2	1659.5
10°	1632.3	1631.7	1631.7	1641.8	1647.6
12.5°	1608.8	1609.5	1612.8	1626.5	1636.6
15°	1580.8	1582.4	1589.3	1608.8	1617.1
17.5°	1550.3	1550.3	1563.8	1579.0	1589.3
20°	1511.3	1513.8	1529.0	1546.0	1556.1
22.5°	1471.4	1475.7	1488.4	1507.9	1517.1
25°	1426.6	1431.7	1442.7	1461.3	1468.9
27.5°	1374.1	1380.8	1392.7	1406.2	1422.3
30°	1313.8	1324.1	1331.7	1350.4	1368.1
32.5°	1252.8	1262.3	1270.8	1290.3	1310.4
35°	1181.8	1191.9	1195.2	1224.1	1243.6
37.5°	1108.9	1113.2	1114.8	1143.7	1164.7
40°	1021.7	1030.0	1032.7	1055.6	1069.0
42.5°	937.7	941.3	946.2	963.2	979.4
45°	847.1	851.4	862.4	867.5	876.0
47.5°	752.3	765.1	777.6	761.5	762.4
50°	665.8	676.1	689.5	659.0	659.0
52.5°	588.6	593.8	594.7	569.4	574.3
55°	518.5	505.7	504.8	488.0	498.1
57.5°	448.1	431.3	425.2	420.1	432.0
60°	391.4	360.9	352.4	360.0	376.1
62.5°	344.8	305.8	289.6	309.1	323.7
65°	295.7	260.0	233.8	270.3	285.6
67.5°	257.6	223.7	189.9	241.4	252.4
70°	221.9	195.7	156.7	219.5	228.0
72.5°	193.2	172.8	135.6	198.2	208.5
75°	167.7	150.9	125.3	175.3	191.4
77.5°	147.5	128.7	117.0	151.5	171.0
80°	124.6	105.8	105.8	127.1	144.8
82.5°	98.2	82.9	85.6	103.3	116.1
85°	65.2	61.0	57.6	75.3	82.3
87.5°	33.0	33.8	30.5	39.0	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)