

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: P476065

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476065
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-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: 3643.9 lumens
Efficiency: N/A
Efficacy: 127.9 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

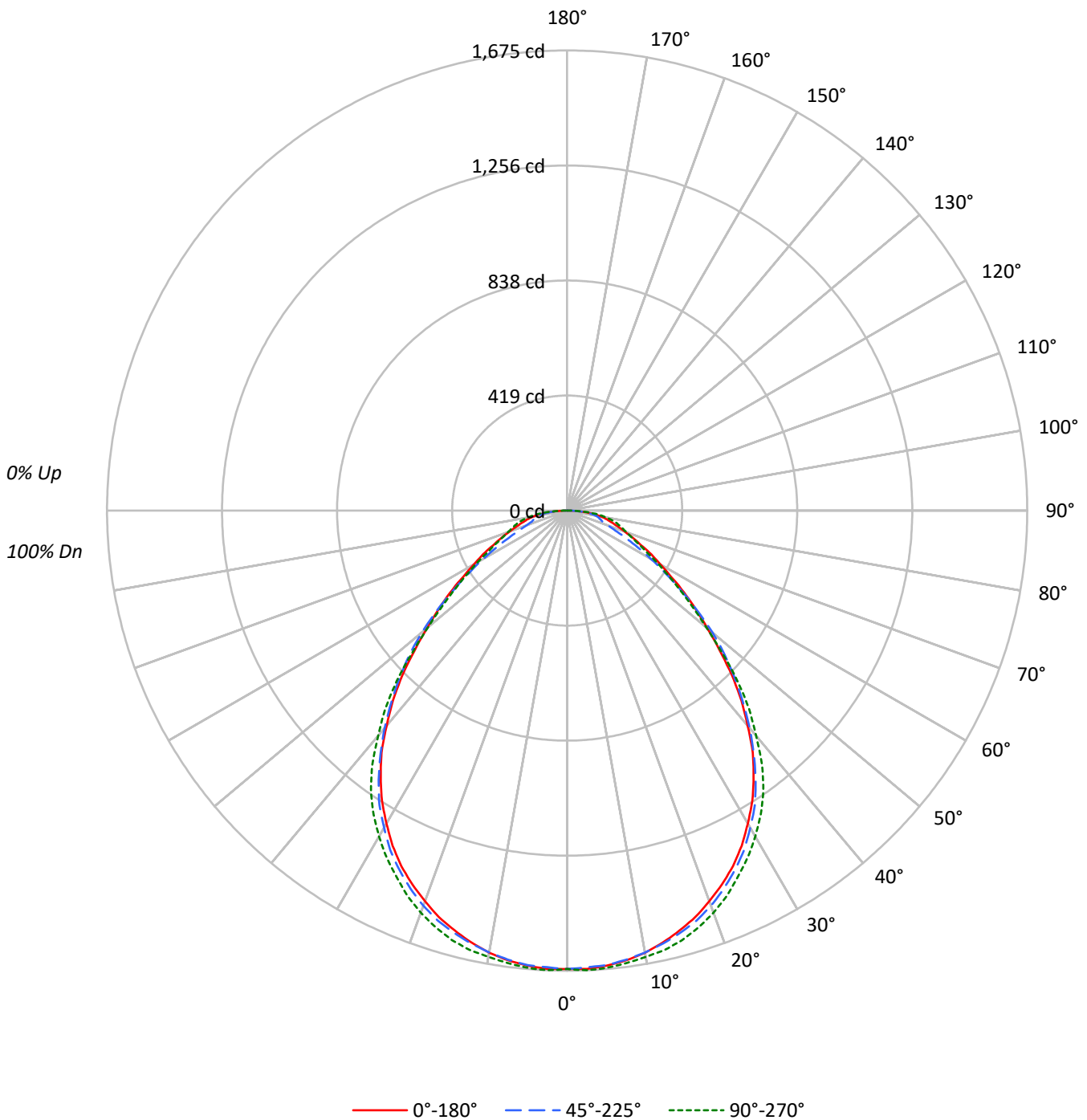
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4490	4490	4490
5°	4492	4485	4512
10°	4465	4463	4506
15°	4408	4432	4510
20°	4332	4383	4461
25°	4240	4288	4366
30°	4086	4142	4255
35°	3886	3930	4090
40°	3593	3631	3759
45°	3227	3285	3337
50°	2790	2889	2762
55°	2435	2371	2339
60°	2109	1898	2026
65°	1885	1490	1820
70°	1747	1234	1795
75°	1745	1304	1992
80°	1934	1641	2247
85°	2016	1782	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	4.3
10°-20°	449.8	12.3
20°-30°	665.2	18.3
30°-40°	750.7	20.6
40°-50°	661.7	18.2
50°-60°	453.9	12.5
60°-70°	267.9	7.4
70°-80°	167.1	4.6
80°-90°	69.7	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°	1272.9	34.9
0°-40°	2023.6	55.5
0°-60°	3139.2	86.1
0°-90°	3643.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3643.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1663	1660	1660	1666	1670	158
15°	1582	1584	1591	1610	1619	446
25°	1428	1433	1444	1463	1470	656
35°	1183	1193	1196	1225	1245	737
45°	848	852	863	868	877	651
55°	519	506	505	488	499	465
65°	296	260	234	271	286	298
75°	168	151	125	176	192	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°	1668.7	1668.7	1668.7	1668.7	1668.7
2.5°	1669.6	1665.4	1663.8	1670.5	1674.8
5°	1662.9	1659.5	1660.4	1666.3	1670.5
7.5°	1651.0	1648.5	1648.5	1656.8	1661.1
10°	1633.9	1633.3	1633.3	1643.4	1649.2
12.5°	1610.4	1611.1	1614.4	1628.1	1638.2
15°	1582.3	1583.9	1590.9	1610.4	1618.7
17.5°	1551.8	1551.8	1565.3	1580.5	1590.9
20°	1512.8	1515.3	1530.5	1547.6	1557.7
22.5°	1472.8	1477.1	1489.9	1509.4	1518.6
25°	1428.0	1433.1	1444.1	1462.7	1470.4
27.5°	1375.5	1382.2	1394.1	1407.5	1423.7
30°	1315.1	1325.4	1333.1	1351.7	1369.4
32.5°	1254.1	1263.5	1272.0	1291.5	1311.7
35°	1182.9	1193.0	1196.4	1225.3	1244.9
37.5°	1110.0	1114.3	1115.9	1144.8	1165.9
40°	1022.7	1031.0	1033.7	1056.6	1070.1
42.5°	938.6	942.2	947.1	964.2	980.3
45°	847.9	852.2	863.2	868.4	876.9
47.5°	753.0	765.8	778.4	762.2	763.1
50°	666.4	676.7	690.2	659.7	659.7
52.5°	589.2	594.4	595.3	569.9	574.9
55°	519.0	506.2	505.3	488.5	498.6
57.5°	448.5	431.7	425.7	420.5	432.4
60°	391.8	361.3	352.7	360.4	376.5
62.5°	345.1	306.1	289.9	309.4	324.0
65°	296.0	260.3	234.0	270.6	285.9
67.5°	257.8	223.9	190.1	241.7	252.7
70°	222.1	195.9	156.8	219.7	228.2
72.5°	193.4	173.0	135.8	198.4	208.7
75°	167.8	151.0	125.4	175.5	191.6
77.5°	147.6	128.8	117.1	151.7	171.2
80°	124.8	105.9	105.9	127.2	145.0
82.5°	98.3	83.0	85.7	103.4	116.2
85°	65.3	61.0	57.7	75.4	82.3
87.5°	33.0	33.9	30.5	39.0	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)