

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: P476030

Luminaire Tested: **22GR-LD5-40-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476030
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3849.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

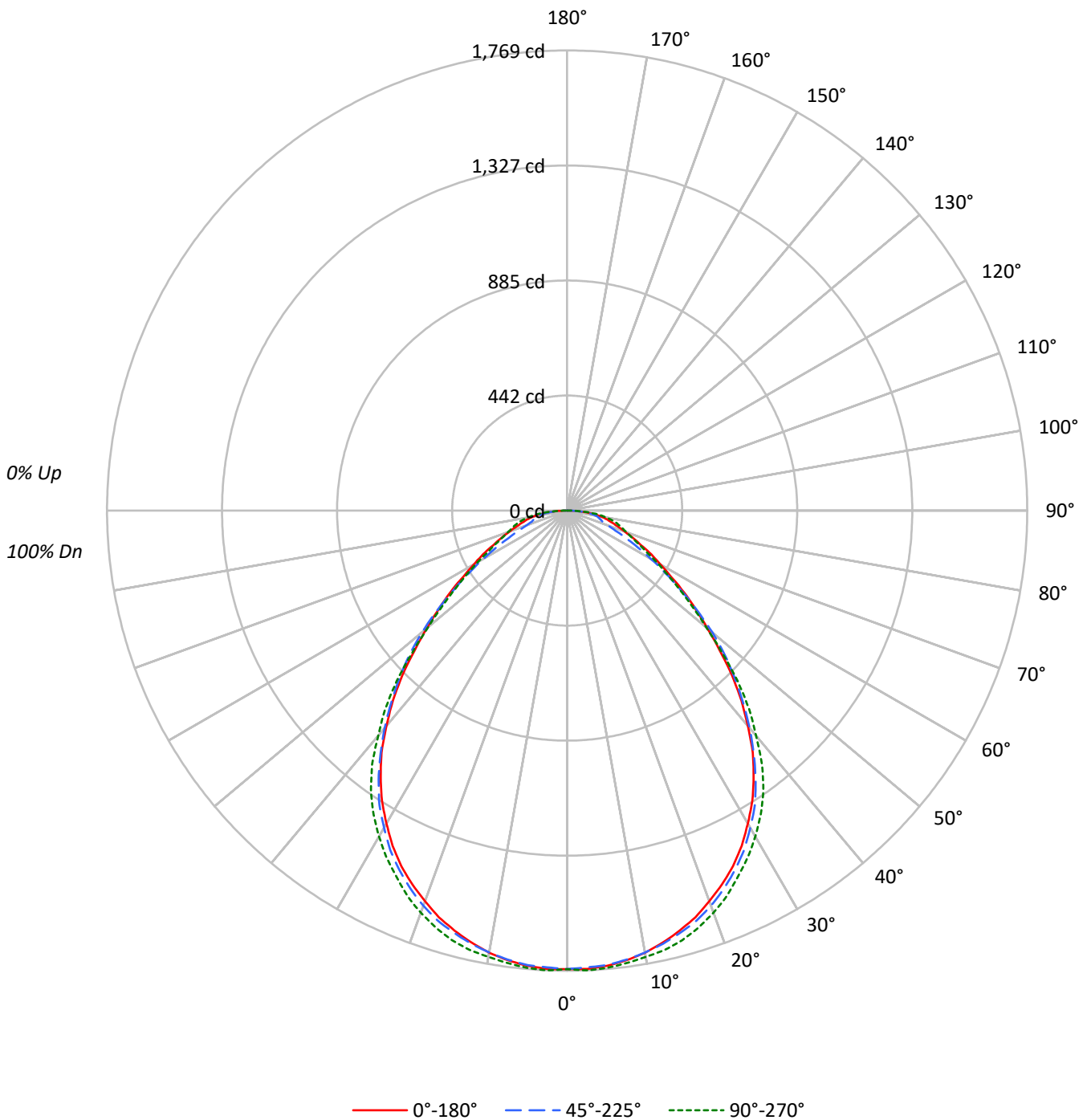
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4743	4743	4743
5°	4745	4738	4766
10°	4716	4714	4760
15°	4656	4681	4763
20°	4576	4629	4712
25°	4478	4529	4611
30°	4316	4375	4495
35°	4105	4151	4320
40°	3795	3836	3971
45°	3409	3470	3525
50°	2947	3052	2917
55°	2572	2504	2471
60°	2227	2005	2140
65°	1990	1574	1923
70°	1846	1304	1896
75°	1843	1378	2104
80°	2042	1734	2373
85°	2130	1880	2686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	4.3
10°-20°	475.1	12.3
20°-30°	702.6	18.3
30°-40°	792.9	20.6
40°-50°	699.0	18.2
50°-60°	479.5	12.5
60°-70°	282.9	7.4
70°-80°	176.5	4.6
80°-90°	73.6	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°	1344.5	34.9
0°-40°	2137.4	55.5
0°-60°	3315.9	86.1
0°-90°	3849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1756	1753	1754	1760	1764	167
15°	1671	1673	1680	1701	1710	471
25°	1508	1514	1525	1545	1553	693
35°	1250	1260	1264	1294	1315	779
45°	896	900	912	917	926	688
55°	548	535	534	516	527	492
65°	313	275	247	286	302	315
75°	177	160	132	185	202	190
85°	69	64	61	80	87	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.6	1762.6	1762.6	1762.6	1762.6
2.5°	1763.6	1759.1	1757.4	1764.5	1769.0
5°	1756.5	1752.9	1753.9	1760.0	1764.5
7.5°	1743.9	1741.3	1741.3	1750.1	1754.6
10°	1725.9	1725.2	1725.2	1735.9	1742.0
12.5°	1701.0	1701.7	1705.3	1719.7	1730.4
15°	1671.4	1673.1	1680.4	1701.0	1709.8
17.5°	1639.2	1639.2	1653.4	1669.5	1680.4
20°	1597.9	1600.5	1616.6	1634.7	1645.3
22.5°	1555.7	1560.2	1573.7	1594.4	1604.1
25°	1508.3	1513.8	1525.4	1545.1	1553.1
27.5°	1452.9	1460.0	1472.5	1486.8	1503.8
30°	1389.1	1400.0	1408.1	1427.7	1446.5
32.5°	1324.6	1334.6	1343.6	1364.2	1385.6
35°	1249.5	1260.2	1263.7	1294.3	1314.9
37.5°	1172.5	1177.0	1178.6	1209.2	1231.5
40°	1080.3	1089.1	1091.9	1116.1	1130.3
42.5°	991.4	995.2	1000.4	1018.4	1035.5
45°	895.7	900.2	911.8	917.2	926.2
47.5°	795.4	808.9	822.2	805.1	806.1
50°	703.9	714.8	729.0	696.8	696.8
52.5°	622.4	627.8	628.8	602.0	607.2
55°	548.2	534.7	533.7	516.0	526.6
57.5°	473.8	456.0	449.6	444.2	456.7
60°	413.8	381.6	372.6	380.6	397.7
62.5°	364.5	323.3	306.2	326.8	342.2
65°	312.6	274.9	247.2	285.8	302.0
67.5°	272.3	236.5	200.7	255.3	266.9
70°	234.6	206.9	165.7	232.0	241.0
72.5°	204.3	182.7	143.4	209.5	220.4
75°	177.3	159.5	132.5	185.3	202.4
77.5°	156.0	136.0	123.7	160.2	180.8
80°	131.8	111.9	111.9	134.4	153.1
82.5°	103.8	87.7	90.5	109.3	122.8
85°	69.0	64.5	60.9	79.6	87.0
87.5°	34.8	35.8	32.2	41.2	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)