

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: P476042

Luminaire Tested: **22GR-LD5-40-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476042
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-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: 3988.6 lumens
Efficiency: N/A
Efficacy: 123.1 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

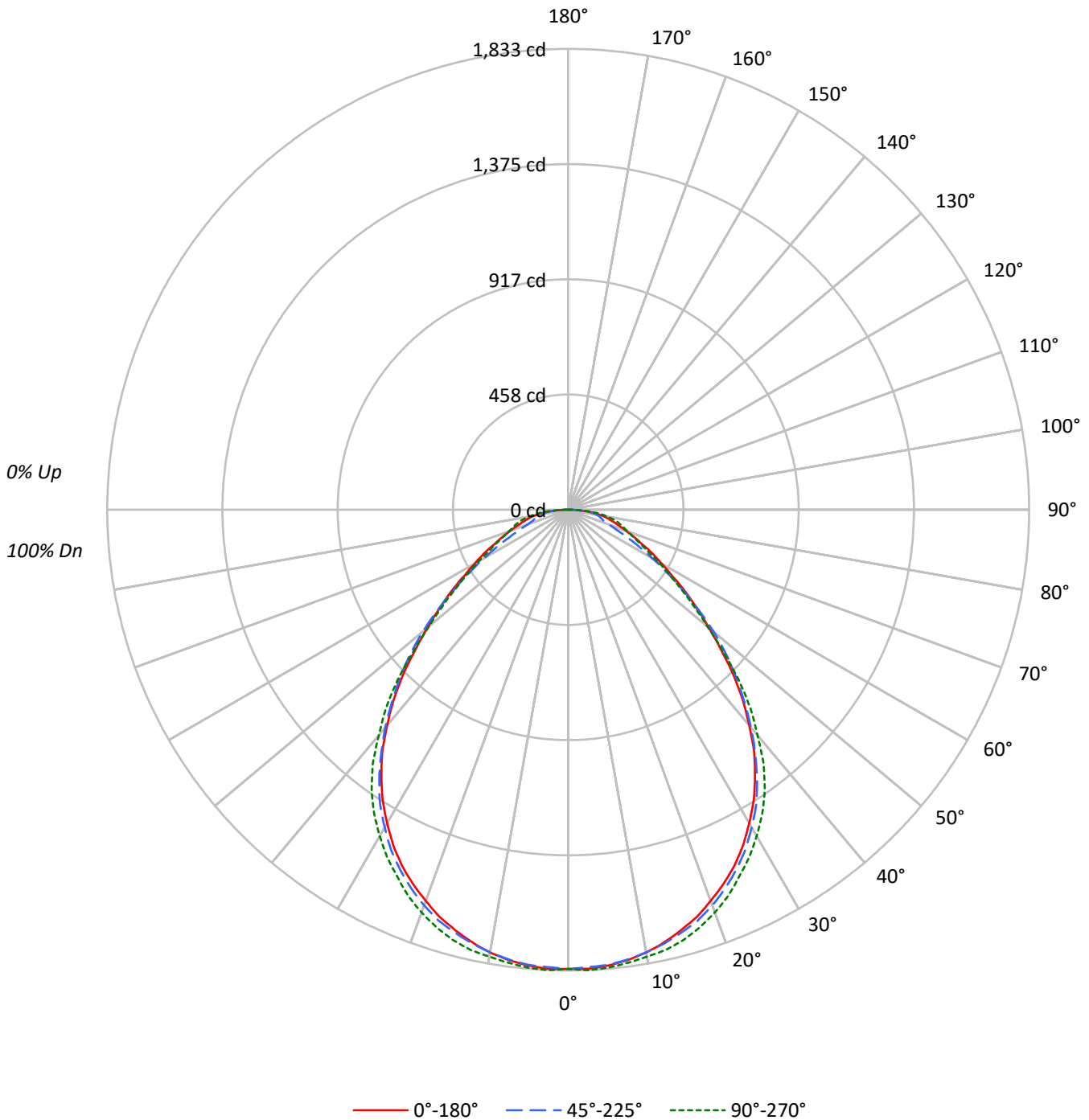
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4915	4915	4915
5°	4917	4910	4939
10°	4887	4885	4933
15°	4825	4851	4936
20°	4742	4798	4883
25°	4641	4693	4779
30°	4473	4534	4657
35°	4254	4302	4476
40°	3933	3975	4115
45°	3532	3596	3653
50°	3054	3163	3023
55°	2665	2595	2560
60°	2308	2078	2218
65°	2063	1631	1992
70°	1913	1351	1965
75°	1910	1428	2180
80°	2117	1796	2459
85°	2208	1948	2782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	4.3
10°-20°	492.3	12.3
20°-30°	728.1	18.3
30°-40°	821.7	20.6
40°-50°	724.3	18.2
50°-60°	496.9	12.5
60°-70°	293.2	7.4
70°-80°	183.0	4.6
80°-90°	76.3	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°	1393.3	34.9
0°-40°	2215.0	55.5
0°-60°	3436.2	86.1
0°-90°	3988.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3988.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1820	1816	1818	1824	1828	173
15°	1732	1734	1741	1763	1772	488
25°	1563	1569	1581	1601	1610	718
35°	1295	1306	1310	1341	1363	807
45°	928	933	945	950	960	713
55°	568	554	553	535	546	509
65°	324	285	256	296	313	326
75°	184	165	137	192	210	197
85°	72	67	63	82	90	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1827.6	1822.9	1821.2	1828.5	1833.2
5°	1820.2	1816.5	1817.5	1823.9	1828.5
7.5°	1807.2	1804.5	1804.5	1813.6	1818.2
10°	1788.5	1787.8	1787.8	1798.8	1805.2
12.5°	1762.7	1763.5	1767.1	1782.1	1793.2
15°	1732.0	1733.7	1741.3	1762.7	1771.8
17.5°	1698.6	1698.6	1713.3	1730.0	1741.3
20°	1655.9	1658.6	1675.3	1693.9	1705.0
22.5°	1612.2	1616.8	1630.8	1652.2	1662.3
25°	1563.0	1568.7	1580.7	1601.1	1609.5
27.5°	1505.6	1512.9	1525.9	1540.7	1558.4
30°	1439.5	1450.8	1459.1	1479.5	1498.9
32.5°	1372.7	1383.0	1392.3	1413.7	1435.8
35°	1294.8	1305.9	1309.6	1341.3	1362.6
37.5°	1215.0	1219.7	1221.4	1253.1	1276.2
40°	1119.5	1128.6	1131.5	1156.6	1171.3
42.5°	1027.4	1031.3	1036.7	1055.4	1073.1
45°	928.1	932.8	944.8	950.5	959.8
47.5°	824.3	838.3	852.0	834.3	835.3
50°	729.4	740.7	755.5	722.1	722.1
52.5°	645.0	650.6	651.6	623.8	629.2
55°	568.1	554.1	553.1	534.7	545.7
57.5°	491.0	472.5	465.9	460.3	473.3
60°	428.8	395.4	386.1	394.4	412.1
62.5°	377.7	335.0	317.3	338.7	354.7
65°	324.0	284.9	256.2	296.2	312.9
67.5°	282.2	245.1	208.0	264.5	276.6
70°	243.1	214.4	171.7	240.4	249.8
72.5°	211.7	189.4	148.6	217.1	228.4
75°	183.7	165.3	137.3	192.1	209.7
77.5°	161.6	141.0	128.2	166.0	187.4
80°	136.6	115.9	115.9	139.3	158.7
82.5°	107.6	90.9	93.8	113.2	127.2
85°	71.5	66.8	63.1	82.5	90.1
87.5°	36.1	37.1	33.4	42.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)