

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: P476055

Luminaire Tested: **22GR-LD5-43-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476055
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-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: 4306.6 lumens
Efficiency: N/A
Efficacy: 123.8 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

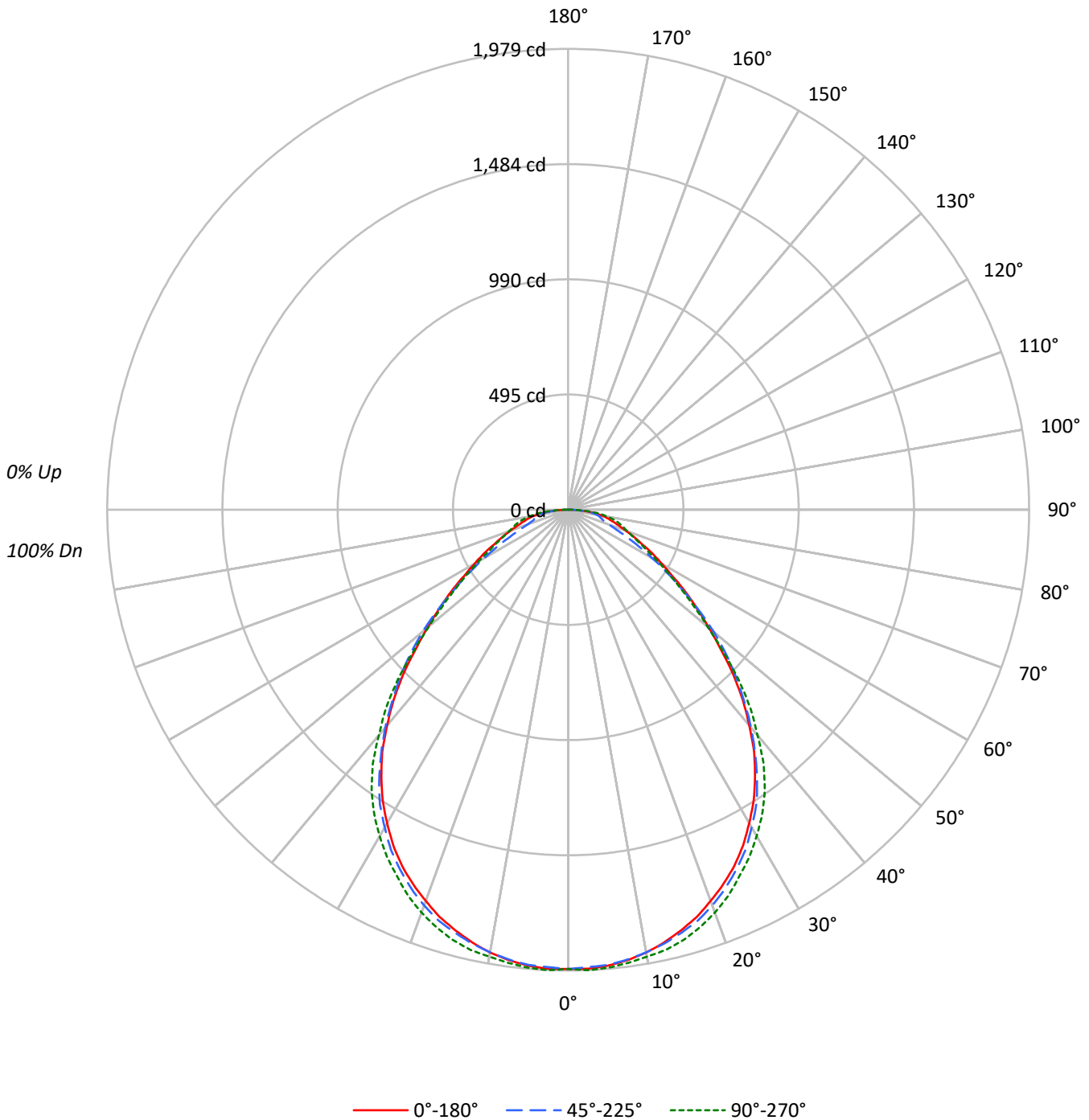
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5307	5307	5307
5°	5309	5301	5333
10°	5277	5275	5326
15°	5210	5238	5329
20°	5120	5180	5272
25°	5011	5067	5160
30°	4829	4896	5029
35°	4593	4645	4833
40°	4246	4292	4443
45°	3814	3882	3944
50°	3297	3415	3264
55°	2878	2802	2764
60°	2492	2244	2395
65°	2227	1761	2151
70°	2065	1459	2122
75°	2063	1541	2355
80°	2284	1940	2655
85°	2384	2106	3004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	4.3
10°-20°	531.6	12.3
20°-30°	786.2	18.3
30°-40°	887.2	20.6
40°-50°	782.1	18.2
50°-60°	536.5	12.5
60°-70°	316.6	7.4
70°-80°	197.5	4.6
80°-90°	82.4	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°	1504.4	34.9
0°-40°	2391.5	55.5
0°-60°	3710.1	86.1
0°-90°	4306.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1965	1961	1962	1969	1974	186
15°	1870	1872	1880	1903	1913	527
25°	1688	1694	1707	1729	1738	775
35°	1398	1410	1414	1448	1471	871
45°	1002	1007	1020	1026	1036	770
55°	613	598	597	577	589	550
65°	350	308	277	320	338	352
75°	198	178	148	207	226	213
85°	77	72	68	89	97	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.2	1972.2	1972.2	1972.2	1972.2
2.5°	1973.2	1968.2	1966.3	1974.3	1979.3
5°	1965.3	1961.3	1962.4	1969.3	1974.3
7.5°	1951.2	1948.3	1948.3	1958.1	1963.2
10°	1931.1	1930.3	1930.3	1942.2	1949.1
12.5°	1903.2	1904.0	1908.0	1924.2	1936.1
15°	1870.1	1871.9	1880.2	1903.2	1913.0
17.5°	1834.0	1834.0	1849.9	1868.0	1880.2
20°	1787.9	1790.8	1808.8	1829.0	1840.9
22.5°	1740.7	1745.7	1760.8	1783.9	1794.8
25°	1687.6	1693.7	1706.7	1728.7	1737.8
27.5°	1625.6	1633.5	1647.6	1663.5	1682.6
30°	1554.2	1566.4	1575.5	1597.5	1618.4
32.5°	1482.1	1493.3	1503.3	1526.4	1550.3
35°	1398.1	1410.0	1414.0	1448.2	1471.2
37.5°	1311.9	1316.9	1318.8	1353.0	1377.9
40°	1208.7	1218.5	1221.7	1248.8	1264.7
42.5°	1109.3	1113.5	1119.3	1139.5	1158.6
45°	1002.1	1007.2	1020.2	1026.3	1036.3
47.5°	890.0	905.1	919.9	900.8	901.9
50°	787.6	799.8	815.7	779.6	779.6
52.5°	696.4	702.5	703.5	673.6	679.4
55°	613.4	598.3	597.2	577.3	589.2
57.5°	530.1	510.2	503.1	497.0	511.0
60°	463.0	426.9	416.9	425.9	445.0
62.5°	407.9	361.7	342.6	365.7	382.9
65°	349.8	307.6	276.6	319.8	337.8
67.5°	304.7	264.7	224.6	285.6	298.6
70°	262.5	231.5	185.4	259.6	269.7
72.5°	228.6	204.5	160.4	234.4	246.6
75°	198.4	178.5	148.2	207.4	226.5
77.5°	174.5	152.2	138.4	179.3	202.3
80°	147.4	125.2	125.2	150.4	171.3
82.5°	116.2	98.1	101.3	122.2	137.4
85°	77.2	72.1	68.2	89.1	97.3
87.5°	39.0	40.0	36.1	46.1	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)