

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: P476043

Luminaire Tested: **22GR-LD5-43-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476043
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-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: 4226.2 lumens
Efficiency: N/A
Efficacy: 121.4 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

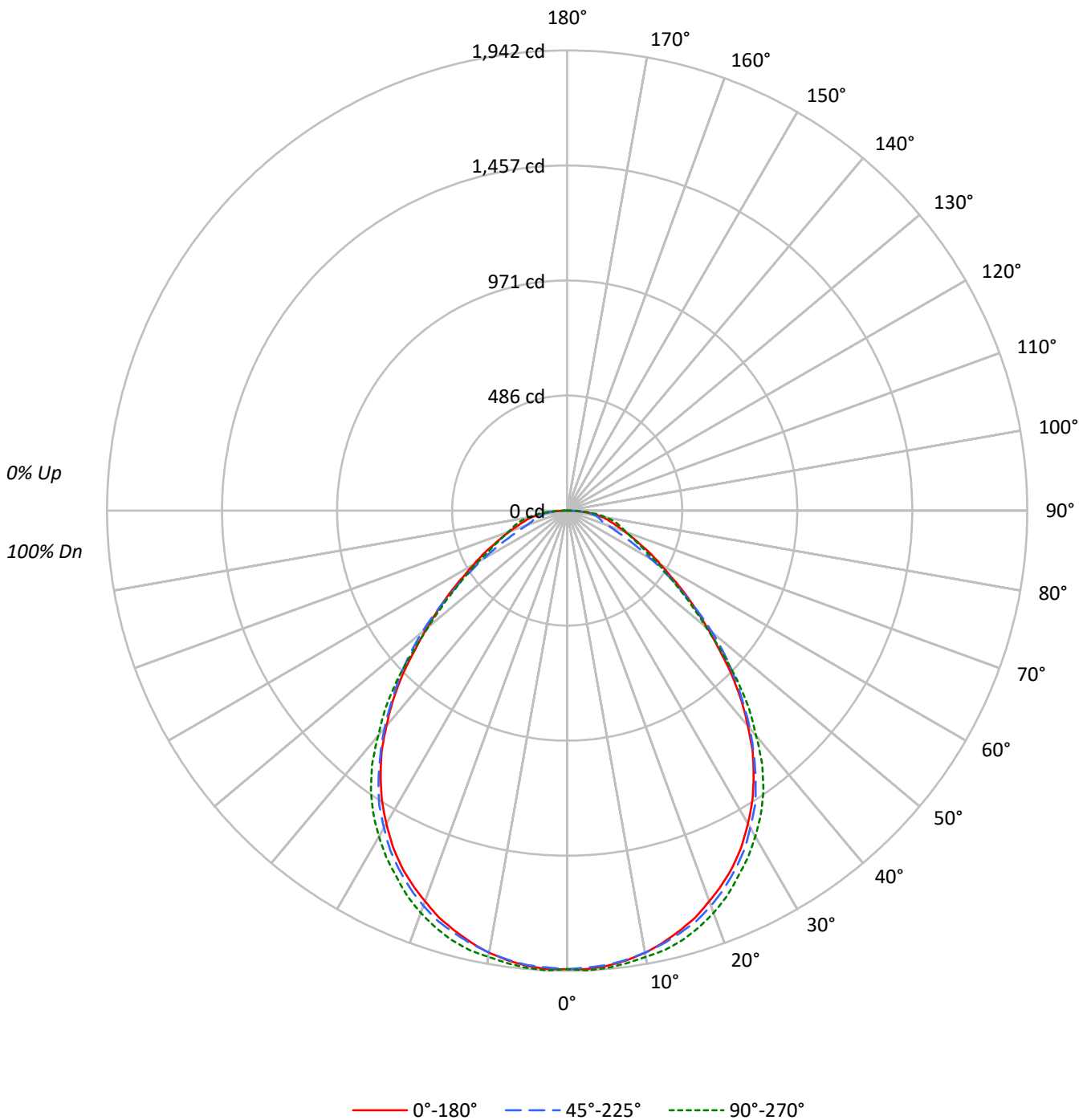
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5208	5208	5208
5°	5210	5202	5234
10°	5178	5176	5227
15°	5113	5140	5230
20°	5024	5083	5174
25°	4918	4973	5063
30°	4740	4804	4935
35°	4507	4558	4743
40°	4167	4212	4360
45°	3742	3810	3870
50°	3236	3351	3203
55°	2824	2750	2713
60°	2446	2202	2350
65°	2186	1728	2111
70°	2027	1431	2083
75°	2024	1513	2310
80°	2242	1903	2605
85°	2337	2066	2949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	4.3
10°-20°	521.6	12.3
20°-30°	771.5	18.3
30°-40°	870.6	20.6
40°-50°	767.5	18.2
50°-60°	526.5	12.5
60°-70°	310.7	7.4
70°-80°	193.8	4.6
80°-90°	80.8	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°	1476.3	34.9
0°-40°	2346.9	55.5
0°-60°	3640.9	86.1
0°-90°	4226.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1929	1925	1926	1932	1938	183
15°	1835	1837	1845	1868	1877	517
25°	1656	1662	1675	1696	1705	761
35°	1372	1384	1388	1421	1444	855
45°	983	988	1001	1007	1017	755
55°	602	587	586	566	578	540
65°	343	302	271	314	332	346
75°	195	175	146	204	222	209
85°	76	71	67	87	96	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1935.4	1935.4	1935.4	1935.4	1935.4
2.5°	1936.4	1931.5	1929.7	1937.5	1942.4
5°	1928.6	1924.7	1925.8	1932.5	1937.5
7.5°	1914.8	1912.0	1912.0	1921.6	1926.6
10°	1895.1	1894.3	1894.3	1906.0	1912.8
12.5°	1867.7	1868.5	1872.4	1888.3	1900.0
15°	1835.2	1837.0	1845.1	1867.7	1877.4
17.5°	1799.8	1799.8	1815.4	1833.1	1845.1
20°	1754.5	1757.4	1775.1	1794.9	1806.6
22.5°	1708.2	1713.2	1728.0	1750.6	1761.3
25°	1656.2	1662.1	1674.9	1696.5	1705.3
27.5°	1595.3	1603.1	1616.9	1632.5	1651.2
30°	1525.3	1537.2	1546.1	1567.7	1588.2
32.5°	1454.5	1465.4	1475.3	1497.9	1521.4
35°	1372.0	1383.7	1387.6	1421.2	1443.8
37.5°	1287.4	1292.3	1294.2	1327.7	1352.2
40°	1186.2	1195.8	1198.9	1225.5	1241.1
42.5°	1088.6	1092.7	1098.5	1118.2	1137.0
45°	983.4	988.4	1001.1	1007.1	1017.0
47.5°	873.4	888.2	902.8	884.0	885.1
50°	772.9	784.9	800.5	765.1	765.1
52.5°	683.4	689.4	690.4	661.0	666.7
55°	601.9	587.1	586.1	566.5	578.3
57.5°	520.2	500.7	493.7	487.7	501.5
60°	454.4	419.0	409.1	417.9	436.7
62.5°	400.2	355.0	336.2	358.9	375.8
65°	343.3	301.9	271.4	313.8	331.5
67.5°	299.0	259.7	220.4	280.3	293.0
70°	257.6	227.2	181.9	254.8	264.7
72.5°	224.3	200.6	157.4	230.1	242.0
75°	194.7	175.1	145.5	203.5	222.2
77.5°	171.2	149.4	135.8	175.9	198.6
80°	144.7	122.8	122.8	147.6	168.1
82.5°	114.0	96.3	99.4	120.0	134.8
85°	75.7	70.8	66.9	87.4	95.5
87.5°	38.3	39.3	35.4	45.3	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)