

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: P476067

Luminaire Tested: **22GR-LD5-43-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476067
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-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: 4310.8 lumens
Efficiency: N/A
Efficacy: 123.9 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

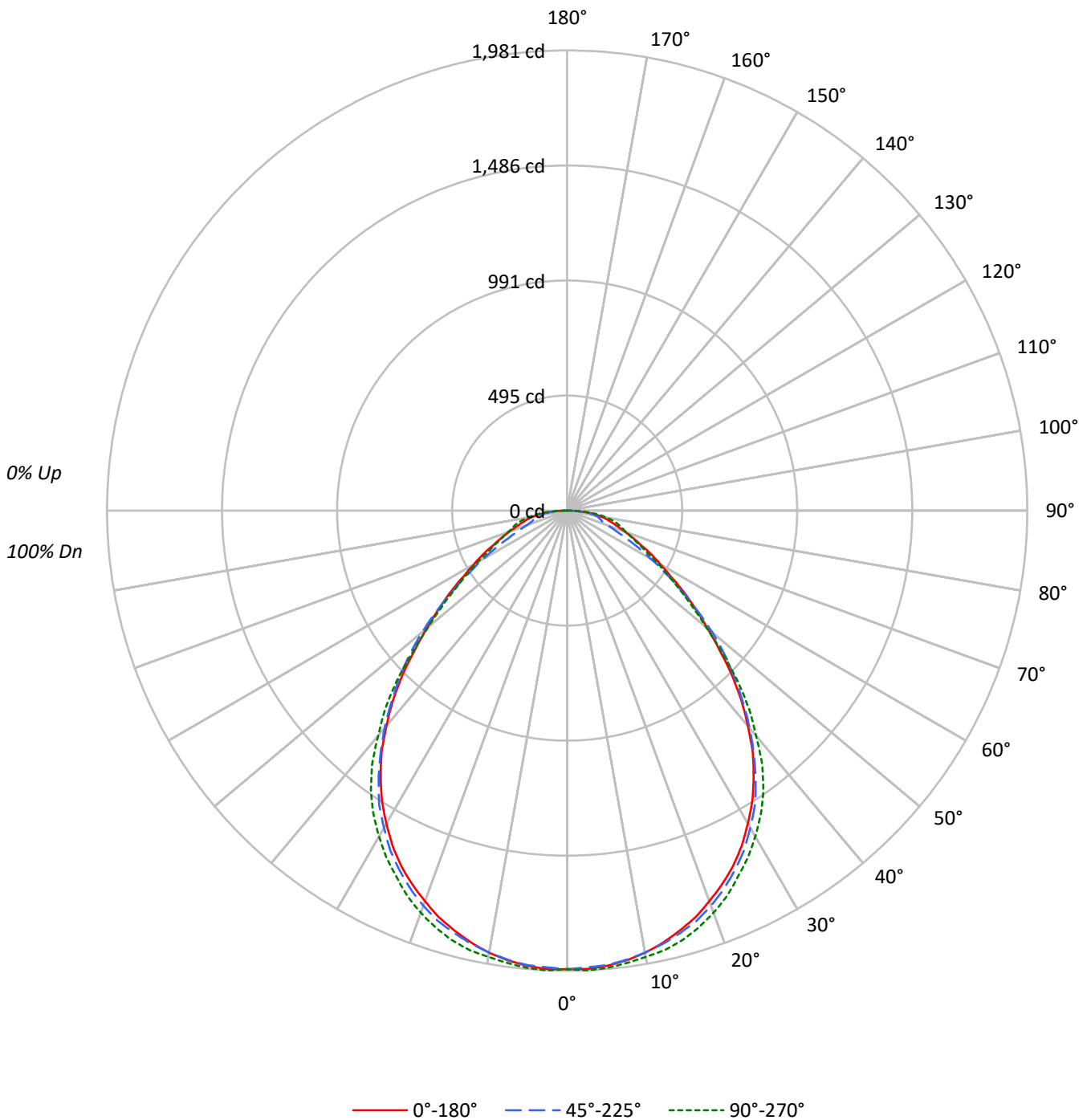
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5312	5312	5312
5°	5314	5306	5338
10°	5282	5280	5331
15°	5215	5243	5335
20°	5125	5185	5277
25°	5016	5073	5165
30°	4834	4900	5034
35°	4597	4649	4838
40°	4250	4296	4447
45°	3817	3886	3948
50°	3301	3418	3267
55°	2881	2805	2767
60°	2495	2246	2397
65°	2229	1763	2153
70°	2068	1459	2124
75°	2065	1543	2357
80°	2287	1942	2658
85°	2384	2106	3007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	4.3
10°-20°	532.1	12.3
20°-30°	786.9	18.3
30°-40°	888.0	20.6
40°-50°	782.8	18.2
50°-60°	537.0	12.5
60°-70°	316.9	7.4
70°-80°	197.7	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°	1505.8	34.9
0°-40°	2393.9	55.5
0°-60°	3713.7	86.1
0°-90°	4310.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1967	1963	1964	1971	1976	187
15°	1872	1874	1882	1905	1915	528
25°	1689	1695	1708	1730	1740	776
35°	1399	1411	1415	1450	1473	872
45°	1003	1008	1021	1027	1037	771
55°	614	599	598	578	590	551
65°	350	308	277	320	338	353
75°	199	179	148	208	227	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°	1974.1	1974.1	1974.1	1974.1	1974.1
2.5°	1975.2	1970.1	1968.3	1976.2	1981.3
5°	1967.2	1963.2	1964.3	1971.2	1976.2
7.5°	1953.1	1950.2	1950.2	1960.0	1965.1
10°	1933.0	1932.2	1932.2	1944.1	1951.0
12.5°	1905.1	1905.9	1909.9	1926.1	1938.0
15°	1871.9	1873.8	1882.0	1905.1	1914.9
17.5°	1835.8	1835.8	1851.7	1869.8	1882.0
20°	1789.6	1792.5	1810.6	1830.8	1842.7
22.5°	1742.4	1747.4	1762.6	1785.6	1796.5
25°	1689.3	1695.4	1708.4	1730.4	1739.5
27.5°	1627.2	1635.1	1649.2	1665.1	1684.2
30°	1555.8	1568.0	1577.0	1599.0	1620.0
32.5°	1483.6	1494.7	1504.8	1527.9	1551.8
35°	1399.4	1411.4	1415.3	1449.6	1472.7
37.5°	1313.2	1318.2	1320.1	1354.3	1379.2
40°	1209.9	1219.7	1222.9	1250.0	1265.9
42.5°	1110.4	1114.6	1120.4	1140.6	1159.7
45°	1003.1	1008.2	1021.2	1027.3	1037.4
47.5°	890.8	906.0	920.8	901.7	902.8
50°	788.4	800.6	816.5	780.4	780.4
52.5°	697.1	703.2	704.2	674.2	680.1
55°	614.0	598.8	597.8	577.9	589.8
57.5°	530.6	510.7	503.5	497.4	511.5
60°	463.5	427.4	417.3	426.3	445.4
62.5°	408.3	362.1	343.0	366.0	383.3
65°	350.1	307.9	276.9	320.1	338.2
67.5°	305.0	264.9	224.8	285.9	298.9
70°	262.8	231.7	185.5	259.9	270.0
72.5°	228.8	204.7	160.6	234.7	246.9
75°	198.6	178.6	148.4	207.6	226.7
77.5°	174.7	152.4	138.6	179.4	202.5
80°	147.6	125.3	125.3	150.5	171.5
82.5°	116.3	98.2	101.4	122.4	137.5
85°	77.2	72.2	68.2	89.2	97.4
87.5°	39.0	40.1	36.1	46.2	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)