

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: P476080

Luminaire Tested: **22GR-LD5-50-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476080
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4901.4 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

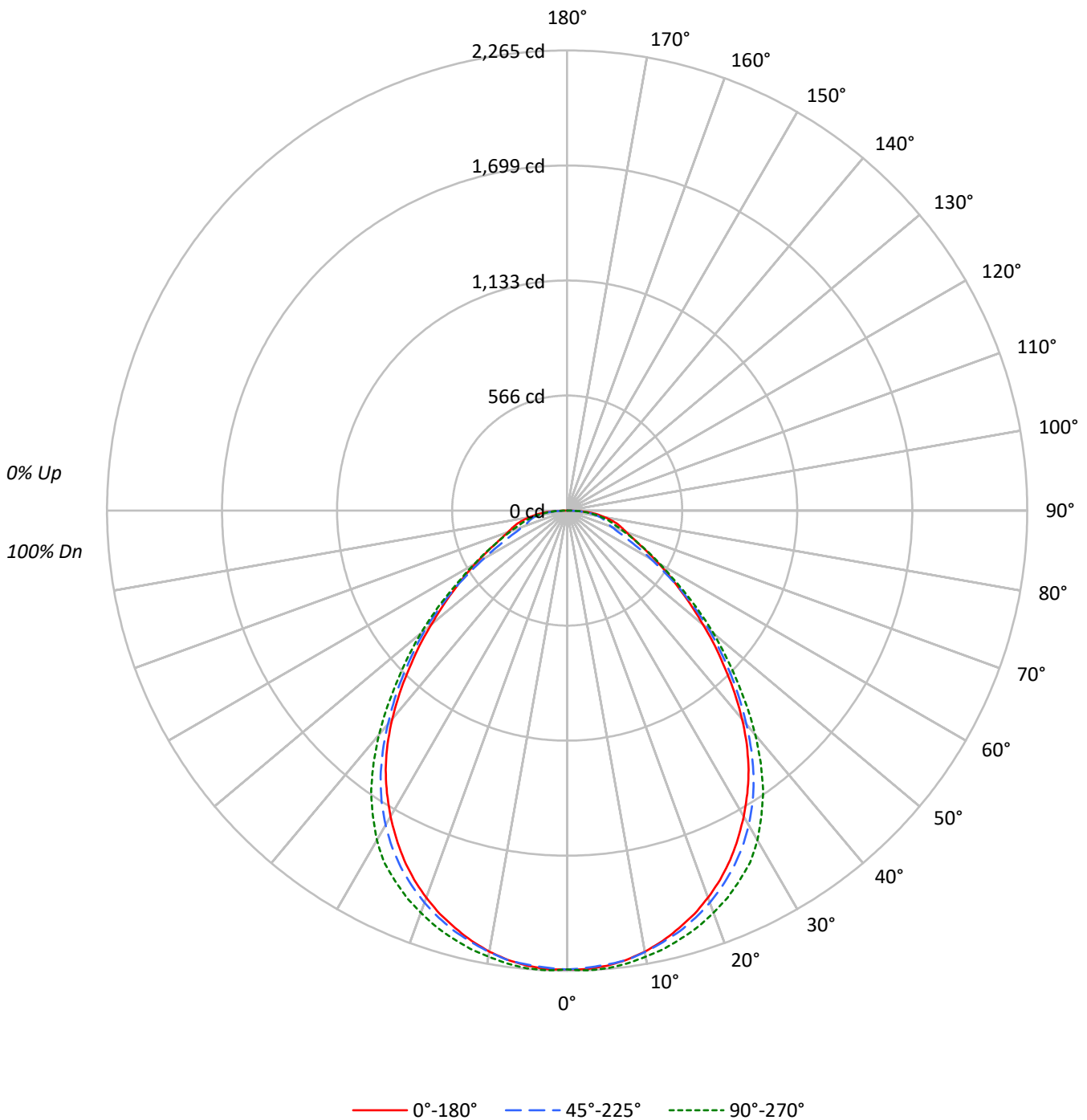
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6080	6080	6080
5°	6075	6060	6109
10°	6024	6030	6093
15°	5928	5970	6071
20°	5806	5881	6032
25°	5636	5751	5962
30°	5401	5554	5821
35°	5117	5260	5526
40°	4705	4821	5062
45°	4179	4331	4488
50°	3651	3818	3933
55°	3173	3217	3335
60°	2793	2558	2848
65°	2482	2045	2495
70°	2436	1815	2303
75°	2663	1996	2352
80°	2924	2371	2517
85°	3492	2754	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	4.4
10°-20°	605.5	12.4
20°-30°	893.9	18.2
30°-40°	1000.3	20.4
40°-50°	878.4	17.9
50°-60°	621.5	12.7
60°-70°	361.8	7.4
70°-80°	225.5	4.6
80°-90°	100.9	2.1
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°	1713.0	34.9
0°-40°	2713.3	55.4
0°-60°	4213.3	86.0
0°-90°	4901.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4901.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2259	2259	2259	2259	2259	
5°	2249	2243	2243	2255	2262	213
15°	2128	2132	2143	2166	2179	600
25°	1898	1906	1937	1983	2008	872
35°	1558	1564	1601	1649	1682	969
45°	1098	1111	1138	1166	1179	849
55°	676	690	686	698	711	611
65°	390	359	321	350	392	395
75°	256	220	192	196	226	267
85°	113	118	89	87	91	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.3	2259.3	2259.3	2259.3	2259.3
2.5°	2259.3	2254.8	2252.4	2260.5	2265.1
5°	2249.0	2243.3	2243.3	2254.8	2261.7
7.5°	2230.9	2225.2	2231.8	2242.1	2249.0
10°	2204.6	2202.2	2206.7	2220.6	2229.7
12.5°	2170.1	2171.3	2175.9	2197.6	2209.1
15°	2127.8	2132.3	2142.9	2165.6	2179.2
17.5°	2082.1	2085.8	2101.5	2127.8	2147.5
20°	2027.4	2034.1	2053.7	2086.7	2106.3
22.5°	1966.6	1974.8	1998.7	2038.9	2062.8
25°	1898.3	1906.2	1937.0	1982.7	2008.1
27.5°	1820.6	1833.0	1867.5	1917.6	1951.8
30°	1738.3	1748.6	1787.3	1844.5	1873.2
32.5°	1650.4	1662.7	1699.3	1754.1	1779.5
35°	1557.5	1564.5	1601.1	1649.1	1682.1
37.5°	1452.6	1455.9	1490.1	1534.8	1564.5
40°	1339.5	1341.6	1372.5	1414.8	1441.1
42.5°	1221.6	1222.8	1256.1	1287.8	1310.8
45°	1098.2	1110.9	1138.1	1165.6	1179.3
47.5°	987.2	996.6	1021.7	1045.6	1058.3
50°	872.0	894.7	912.0	924.7	939.5
52.5°	772.6	791.9	796.4	811.3	824.0
55°	676.4	690.3	685.8	698.2	710.9
57.5°	595.4	588.4	573.6	595.4	611.4
60°	518.9	500.4	475.3	505.3	529.2
62.5°	450.2	420.6	389.8	419.4	459.3
65°	389.8	358.9	321.1	349.8	391.9
67.5°	344.1	312.0	267.3	296.0	338.4
70°	309.6	276.7	230.7	254.9	292.7
72.5°	282.4	246.7	206.8	222.8	254.9
75°	256.1	220.4	192.0	196.5	226.2
77.5°	225.3	199.0	176.0	173.6	196.5
80°	188.7	180.5	153.0	149.7	162.4
82.5°	155.4	152.1	125.8	122.2	127.0
85°	113.1	117.6	89.2	86.8	91.3
87.5°	59.6	65.0	46.9	49.3	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)