

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: P476079

Luminaire Tested: **22GR-LD5-43-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476079
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-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: 4221.3 lumens
Efficiency: N/A
Efficacy: 121.3 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

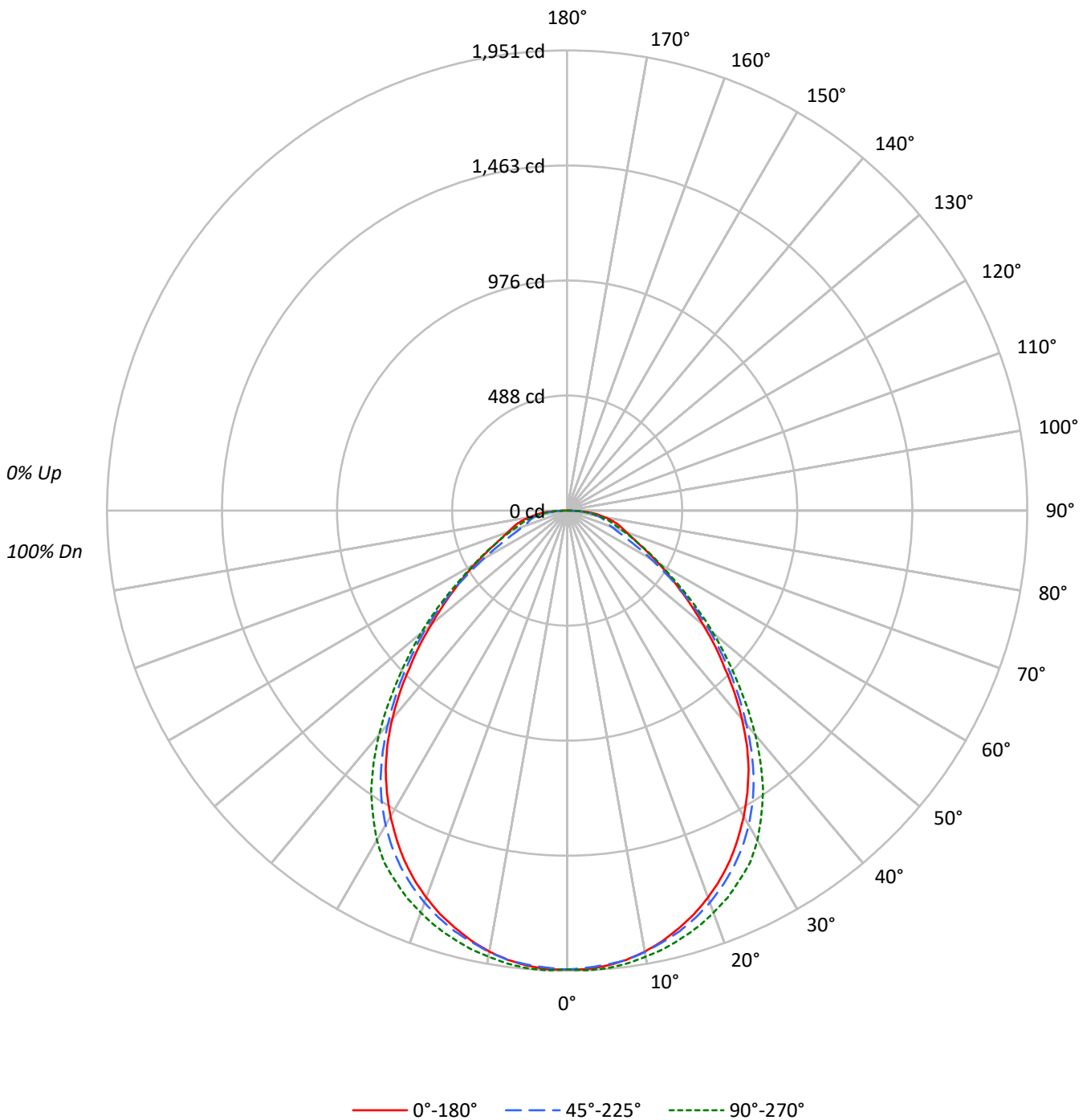
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5236	5236	5236
5°	5232	5219	5262
10°	5188	5193	5247
15°	5105	5142	5229
20°	5000	5065	5195
25°	4854	4953	5135
30°	4652	4783	5013
35°	4407	4530	4759
40°	4052	4152	4360
45°	3599	3730	3865
50°	3144	3288	3387
55°	2733	2771	2872
60°	2405	2203	2453
65°	2138	1761	2149
70°	2098	1563	1983
75°	2294	1720	2025
80°	2518	2042	2166
85°	3007	2371	2427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	4.4
10°-20°	521.5	12.4
20°-30°	769.9	18.2
30°-40°	861.5	20.4
40°-50°	756.5	17.9
50°-60°	535.3	12.7
60°-70°	311.6	7.4
70°-80°	194.2	4.6
80°-90°	86.9	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°	1475.3	34.9
0°-40°	2336.8	55.4
0°-60°	3628.6	86.0
0°-90°	4221.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1937	1932	1932	1942	1948	184
15°	1832	1836	1846	1865	1877	516
25°	1635	1642	1668	1708	1729	751
35°	1341	1347	1379	1420	1449	834
45°	946	957	980	1004	1016	732
55°	582	594	591	601	612	527
65°	336	309	277	301	338	340
75°	221	190	165	169	195	230
85°	97	101	77	75	79	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.8	1945.8	1945.8	1945.8	1945.8
2.5°	1945.8	1941.9	1939.8	1946.9	1950.8
5°	1937.0	1932.0	1932.0	1941.9	1947.9
7.5°	1921.3	1916.4	1922.1	1931.0	1937.0
10°	1898.7	1896.6	1900.5	1912.5	1920.3
12.5°	1869.0	1870.0	1873.9	1892.7	1902.6
15°	1832.5	1836.4	1845.6	1865.1	1876.8
17.5°	1793.2	1796.3	1809.9	1832.5	1849.5
20°	1746.1	1751.8	1768.7	1797.1	1814.0
22.5°	1693.7	1700.8	1721.3	1756.0	1776.5
25°	1634.9	1641.7	1668.2	1707.5	1729.4
27.5°	1568.0	1578.6	1608.3	1651.6	1681.0
30°	1497.1	1506.0	1539.3	1588.5	1613.3
32.5°	1421.3	1432.0	1463.5	1510.7	1532.5
35°	1341.4	1347.4	1378.9	1420.3	1448.7
37.5°	1251.0	1253.9	1283.3	1321.9	1347.4
40°	1153.6	1155.5	1182.0	1218.5	1241.1
42.5°	1052.1	1053.1	1081.8	1109.1	1128.9
45°	945.8	956.8	980.2	1003.9	1015.6
47.5°	850.3	858.3	879.9	900.5	911.5
50°	751.0	770.6	785.4	796.3	809.1
52.5°	665.4	682.0	685.9	698.7	709.6
55°	582.5	594.5	590.6	601.3	612.2
57.5°	512.8	506.8	494.0	512.8	526.6
60°	446.9	431.0	409.4	435.2	455.7
62.5°	387.8	362.2	335.7	361.2	395.6
65°	335.7	309.1	276.6	301.3	337.5
67.5°	296.4	268.7	230.2	254.9	291.4
70°	266.7	238.3	198.7	219.5	252.1
72.5°	243.2	212.5	178.1	191.9	219.5
75°	220.6	189.8	165.4	169.3	194.8
77.5°	194.0	171.4	151.6	149.5	169.3
80°	162.5	155.5	131.8	128.9	139.8
82.5°	133.9	131.0	108.3	105.2	109.4
85°	97.4	101.3	76.8	74.7	78.6
87.5°	51.3	56.0	40.4	42.4	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)