

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: P213855

Luminaire Tested: **22GR-LD5-43-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A125-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.6 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

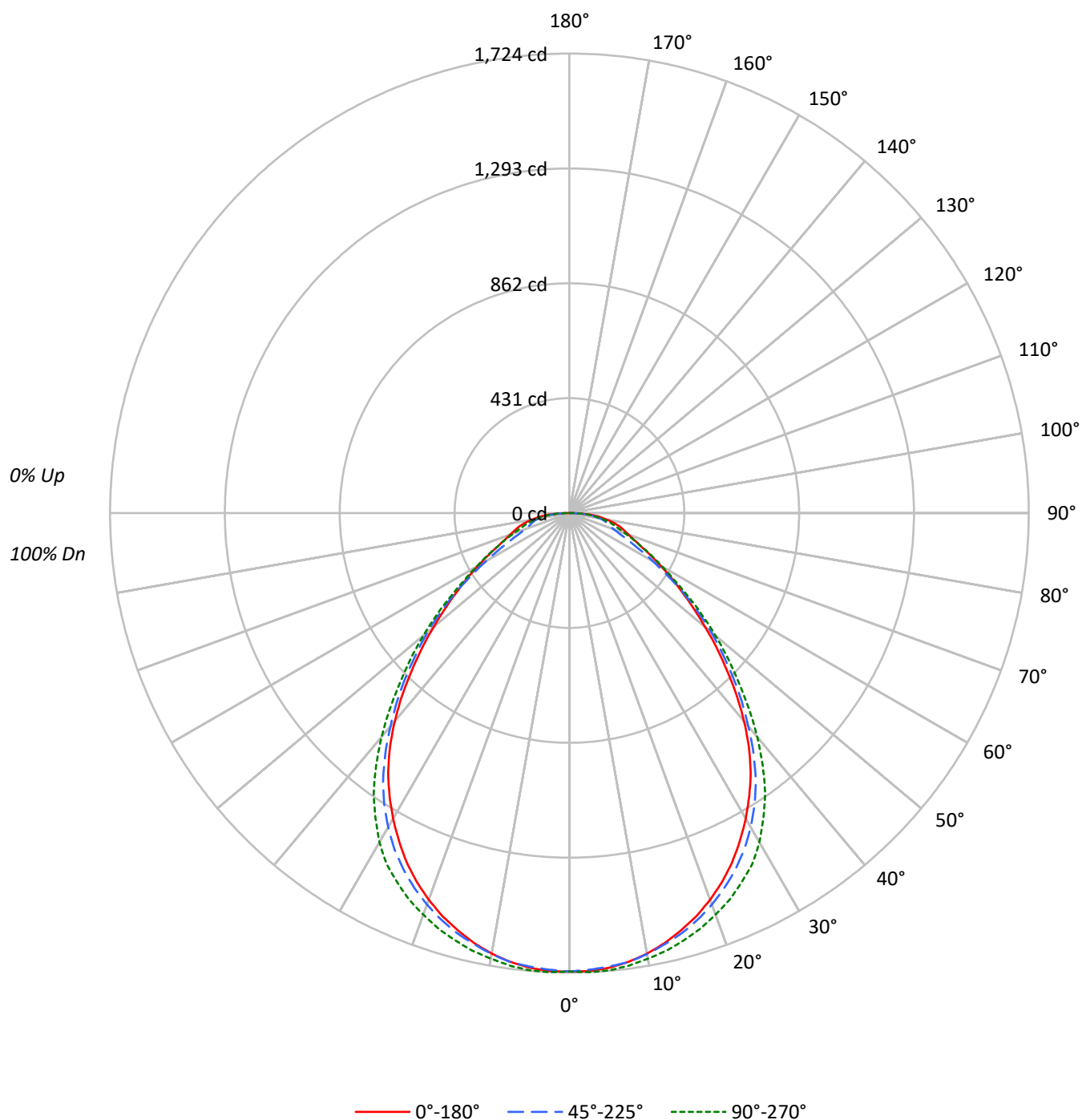
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	5509	5509	5509
5°	5505	5490	5535
10°	5458	5463	5520
15°	5371	5409	5501
20°	5260	5328	5465
25°	5106	5211	5401
30°	4893	5032	5273
35°	4636	4765	5007
40°	4263	4368	4586
45°	3787	3924	4066
50°	3307	3459	3563
55°	2876	2915	3022
60°	2530	2319	2580
65°	2248	1853	2261
70°	2208	1646	2085
75°	2412	1809	2132
80°	2646	2150	2279
85°	3167	2495	2557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	4.4
10°-20°	461.0	12.4
20°-30°	680.6	18.2
30°-40°	761.5	20.4
40°-50°	668.7	17.9
50°-60°	473.2	12.7
60°-70°	275.5	7.4
70°-80°	171.7	4.6
80°-90°	76.8	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°	1304.1	34.9
0°-40°	2065.7	55.4
0°-60°	3207.6	86.0
0°-90°	3731.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1712	1708	1708	1717	1722	162
15°	1620	1624	1631	1649	1659	456
25°	1445	1451	1475	1510	1529	664
35°	1186	1191	1219	1255	1281	737
45°	836	846	866	887	898	647
55°	515	526	522	532	541	466
65°	297	273	244	266	298	301
75°	195	168	146	150	172	204
85°	86	90	68	66	70	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.1	1720.1	1720.1	1720.1	1720.1
2.5°	1720.1	1716.6	1714.8	1720.9	1724.4
5°	1712.3	1707.9	1707.9	1716.6	1721.8
7.5°	1698.3	1693.9	1699.2	1707.0	1712.3
10°	1678.3	1676.6	1680.0	1690.5	1697.5
12.5°	1652.2	1653.1	1656.5	1673.0	1681.8
15°	1620.0	1623.5	1631.3	1648.7	1659.1
17.5°	1585.2	1587.8	1600.0	1620.0	1634.8
20°	1543.4	1548.7	1563.5	1588.7	1603.5
22.5°	1497.3	1503.5	1521.7	1552.1	1570.4
25°	1445.1	1451.2	1474.7	1509.5	1528.6
27.5°	1386.0	1395.5	1421.7	1459.9	1486.0
30°	1323.3	1331.1	1360.7	1404.2	1426.0
32.5°	1256.3	1265.9	1293.7	1335.5	1354.7
35°	1185.9	1191.1	1218.9	1255.4	1280.7
37.5°	1105.8	1108.5	1134.5	1168.5	1191.1
40°	1019.7	1021.4	1044.9	1077.1	1097.1
42.5°	930.1	931.0	956.1	980.5	997.9
45°	836.1	845.6	866.5	887.4	897.8
47.5°	751.7	758.7	777.8	796.1	805.6
50°	663.8	681.2	694.3	703.8	715.2
52.5°	588.2	602.9	606.4	617.7	627.3
55°	515.1	525.5	522.0	531.6	541.2
57.5°	453.3	448.1	436.8	453.3	465.4
60°	395.0	381.1	362.0	384.6	402.8
62.5°	342.8	320.2	296.7	319.3	349.8
65°	296.7	273.2	244.5	266.3	298.4
67.5°	261.9	237.5	203.6	225.3	257.6
70°	235.8	210.5	175.8	194.0	222.7
72.5°	214.9	187.9	157.5	169.7	194.0
75°	194.9	168.0	146.2	149.6	172.3
77.5°	171.4	151.4	134.0	132.3	149.6
80°	143.5	137.4	116.6	114.0	123.6
82.5°	118.3	115.8	95.7	93.1	96.6
85°	86.2	89.6	67.9	66.1	69.6
87.5°	45.2	49.6	35.7	37.4	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)