

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: P213813

Luminaire Tested: **22GR-LD5-43-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213813
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-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3421.9 lumens
Efficiency: N/A
Efficacy: 85.3 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

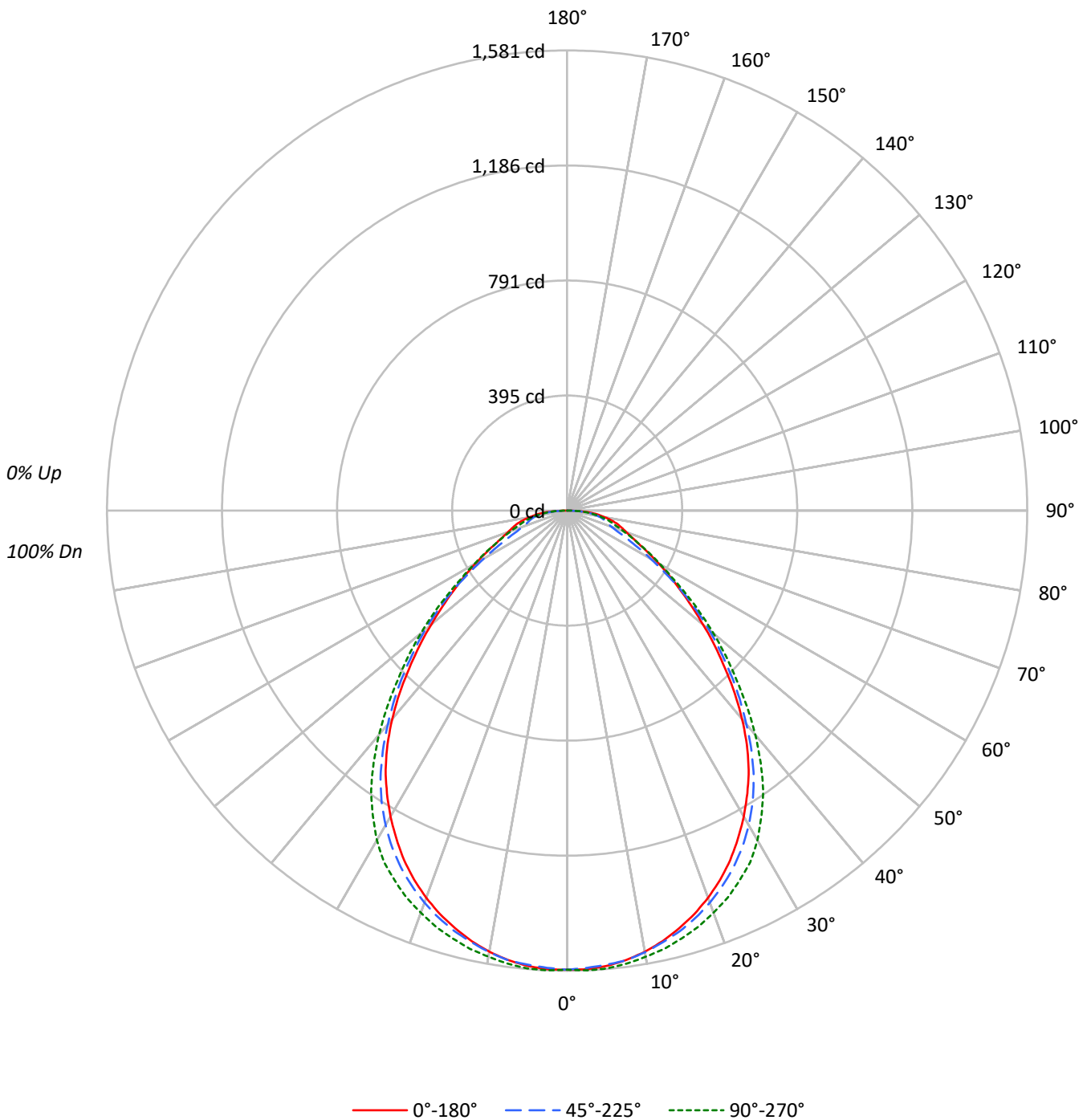
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5051	5051	5051
5°	5047	5035	5076
10°	5005	5010	5062
15°	4925	4960	5044
20°	4823	4886	5011
25°	4683	4778	4953
30°	4487	4614	4836
35°	4251	4370	4591
40°	3909	4006	4206
45°	3472	3599	3729
50°	3033	3172	3267
55°	2637	2673	2771
60°	2320	2126	2366
65°	2062	1699	2073
70°	2024	1508	1913
75°	2211	1659	1954
80°	2427	1971	2090
85°	2903	2286	2344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	4.4
10°-20°	422.7	12.4
20°-30°	624.1	18.2
30°-40°	698.3	20.4
40°-50°	613.3	17.9
50°-60°	433.9	12.7
60°-70°	252.6	7.4
70°-80°	157.4	4.6
80°-90°	70.4	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°	1195.9	34.9
0°-40°	1894.2	55.4
0°-60°	2941.4	86.0
0°-90°	3421.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1570	1566	1566	1574	1579	149
15°	1486	1489	1496	1512	1521	419
25°	1325	1331	1352	1384	1402	609
35°	1087	1092	1118	1151	1174	676
45°	767	776	795	814	823	593
55°	472	482	479	488	496	427
65°	272	250	224	244	274	276
75°	179	154	134	137	158	187
85°	79	82	62	61	64	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.3	1577.3	1577.3	1577.3	1577.3
2.5°	1577.3	1574.2	1572.5	1578.1	1581.3
5°	1570.1	1566.1	1566.1	1574.2	1578.9
7.5°	1557.3	1553.4	1558.2	1565.4	1570.1
10°	1539.0	1537.4	1540.6	1550.2	1556.5
12.5°	1515.1	1515.9	1519.0	1534.2	1542.2
15°	1485.6	1488.7	1495.9	1511.9	1521.4
17.5°	1453.6	1456.1	1467.2	1485.6	1499.1
20°	1415.3	1420.2	1433.7	1456.8	1470.4
22.5°	1373.1	1378.7	1395.4	1423.4	1440.1
25°	1325.2	1330.8	1352.3	1384.2	1401.8
27.5°	1270.9	1279.7	1303.6	1338.7	1362.7
30°	1213.5	1220.7	1247.8	1287.7	1307.7
32.5°	1152.1	1160.9	1186.4	1224.7	1242.2
35°	1087.4	1092.2	1117.7	1151.3	1174.4
37.5°	1014.0	1016.5	1040.3	1071.5	1092.2
40°	935.0	936.7	958.2	987.7	1006.1
42.5°	852.9	853.7	876.8	899.1	915.1
45°	766.7	775.5	794.7	813.8	823.4
47.5°	689.3	695.7	713.2	730.0	738.8
50°	608.8	624.7	636.6	645.4	655.8
52.5°	539.3	552.9	556.1	566.5	575.2
55°	472.3	481.9	478.7	487.5	496.3
57.5°	415.7	410.9	400.5	415.7	426.8
60°	362.2	349.5	331.9	352.6	369.4
62.5°	314.3	293.6	272.1	292.8	320.7
65°	272.1	250.5	224.2	244.1	273.6
67.5°	240.2	217.8	186.7	206.6	236.2
70°	216.2	193.1	161.1	177.9	204.3
72.5°	197.0	172.4	144.4	155.6	177.9
75°	178.7	154.0	134.1	137.2	157.9
77.5°	157.2	138.8	122.8	121.3	137.2
80°	131.6	126.0	106.9	104.6	113.3
82.5°	108.5	106.1	87.7	85.4	88.6
85°	79.0	82.2	62.2	60.6	63.8
87.5°	41.5	45.5	32.7	34.3	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)