

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: P213729

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

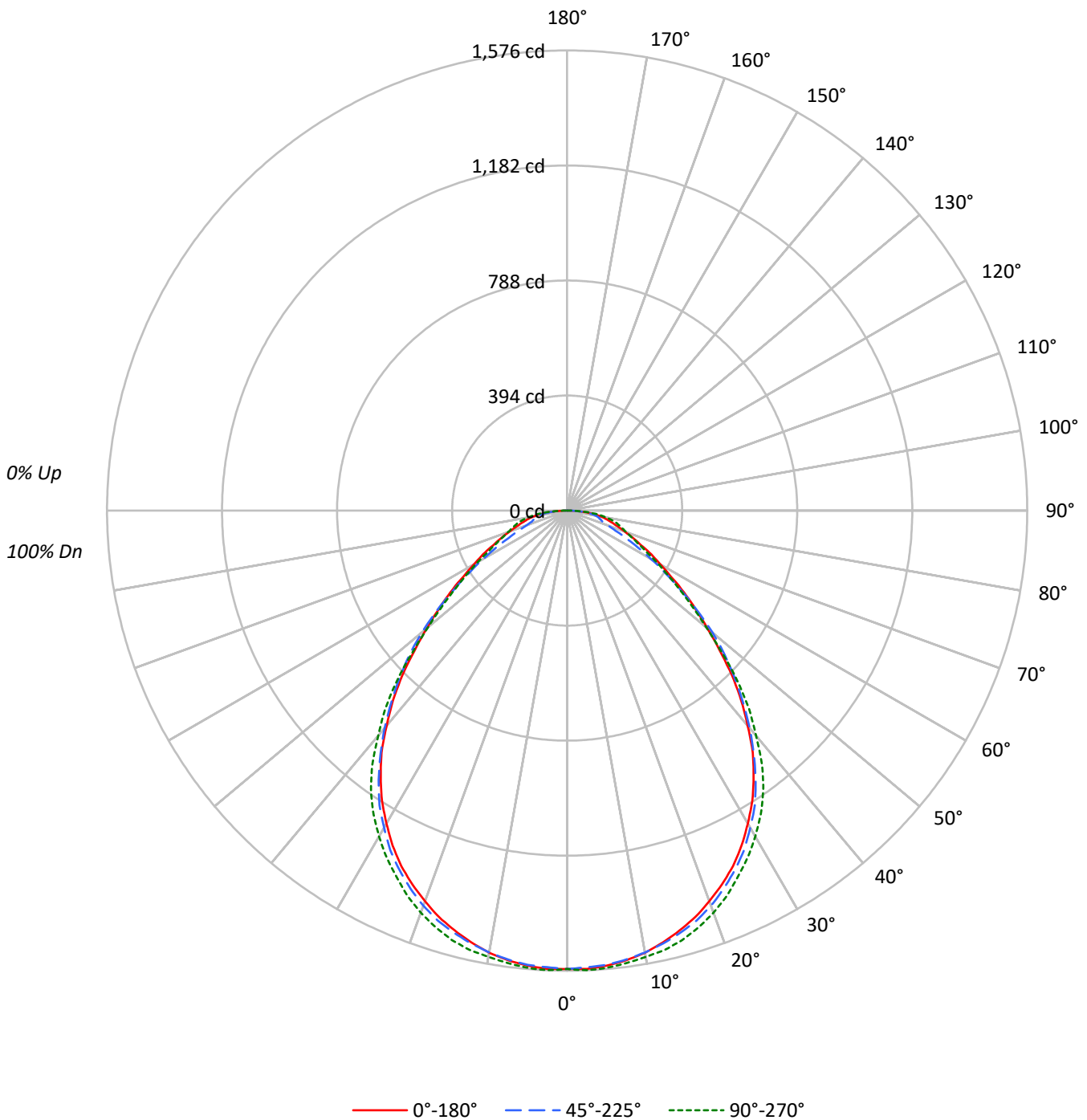
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	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	53	46	42	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	35	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	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5028	5028	5028
5°	5029	5022	5053
10°	4999	4997	5046
15°	4936	4962	5049
20°	4851	4908	4995
25°	4747	4801	4888
30°	4576	4638	4765
35°	4351	4401	4579
40°	4023	4066	4209
45°	3613	3678	3736
50°	3124	3235	3092
55°	2726	2655	2619
60°	2361	2126	2269
65°	2110	1669	2038
70°	1957	1382	2009
75°	1954	1461	2231
80°	2163	1839	2516
85°	2256	1995	2844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	4.3
10°-20°	423.2	12.3
20°-30°	625.9	18.3
30°-40°	706.3	20.6
40°-50°	622.6	18.2
50°-60°	427.1	12.5
60°-70°	252.0	7.4
70°-80°	157.3	4.6
80°-90°	65.6	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°	1197.6	34.9
0°-40°	1903.9	55.5
0°-60°	2953.6	86.1
0°-90°	3428.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1564	1561	1562	1568	1572	148
15°	1489	1490	1497	1515	1523	420
25°	1344	1348	1359	1376	1383	617
35°	1113	1122	1126	1153	1171	694
45°	798	802	812	817	825	613
55°	488	476	476	460	469	438
65°	278	245	220	254	269	281
75°	158	142	118	165	180	169
85°	61	58	54	71	77	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.1	1570.1	1570.1	1570.1	1570.1
2.5°	1570.9	1566.9	1565.3	1571.7	1575.7
5°	1564.5	1561.3	1562.1	1567.7	1571.7
7.5°	1553.3	1550.9	1550.9	1558.9	1562.9
10°	1537.4	1536.6	1536.6	1546.2	1551.8
12.5°	1515.0	1515.9	1519.0	1531.8	1541.4
15°	1488.7	1490.4	1496.7	1515.0	1523.0
17.5°	1460.0	1460.0	1472.7	1487.2	1496.7
20°	1423.3	1425.7	1440.1	1456.0	1465.6
22.5°	1385.8	1389.8	1401.8	1420.1	1428.8
25°	1343.5	1348.3	1358.7	1376.2	1383.4
27.5°	1294.0	1300.4	1311.6	1324.4	1339.6
30°	1237.4	1247.0	1254.2	1271.7	1288.5
32.5°	1180.0	1188.8	1196.7	1215.1	1234.2
35°	1113.0	1122.5	1125.7	1152.8	1171.2
37.5°	1044.4	1048.3	1049.9	1077.1	1097.0
40°	962.2	970.1	972.5	994.1	1006.9
42.5°	883.1	886.3	891.2	907.1	922.3
45°	797.8	801.8	812.2	817.0	824.9
47.5°	708.5	720.5	732.4	717.3	718.0
50°	627.1	636.6	649.4	620.7	620.7
52.5°	554.5	559.2	560.1	536.1	541.0
55°	488.2	476.3	475.5	459.5	469.1
57.5°	422.1	406.1	400.5	395.7	406.9
60°	368.6	339.9	331.9	339.1	354.2
62.5°	324.7	288.0	272.8	291.2	304.8
65°	278.5	244.9	220.2	254.5	268.9
67.5°	242.6	210.7	178.7	227.4	237.7
70°	209.0	184.3	147.6	206.6	214.6
72.5°	181.9	162.8	127.7	186.7	196.2
75°	157.9	142.0	118.1	165.1	180.3
77.5°	138.8	121.3	110.1	142.8	161.1
80°	117.3	99.7	99.7	119.6	136.4
82.5°	92.6	78.1	80.6	97.3	109.3
85°	61.4	57.5	54.3	71.0	77.4
87.5°	31.1	31.9	28.7	36.7	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)