

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: P213394

Luminaire Tested: **14GR-LD5-43-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3456.9 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

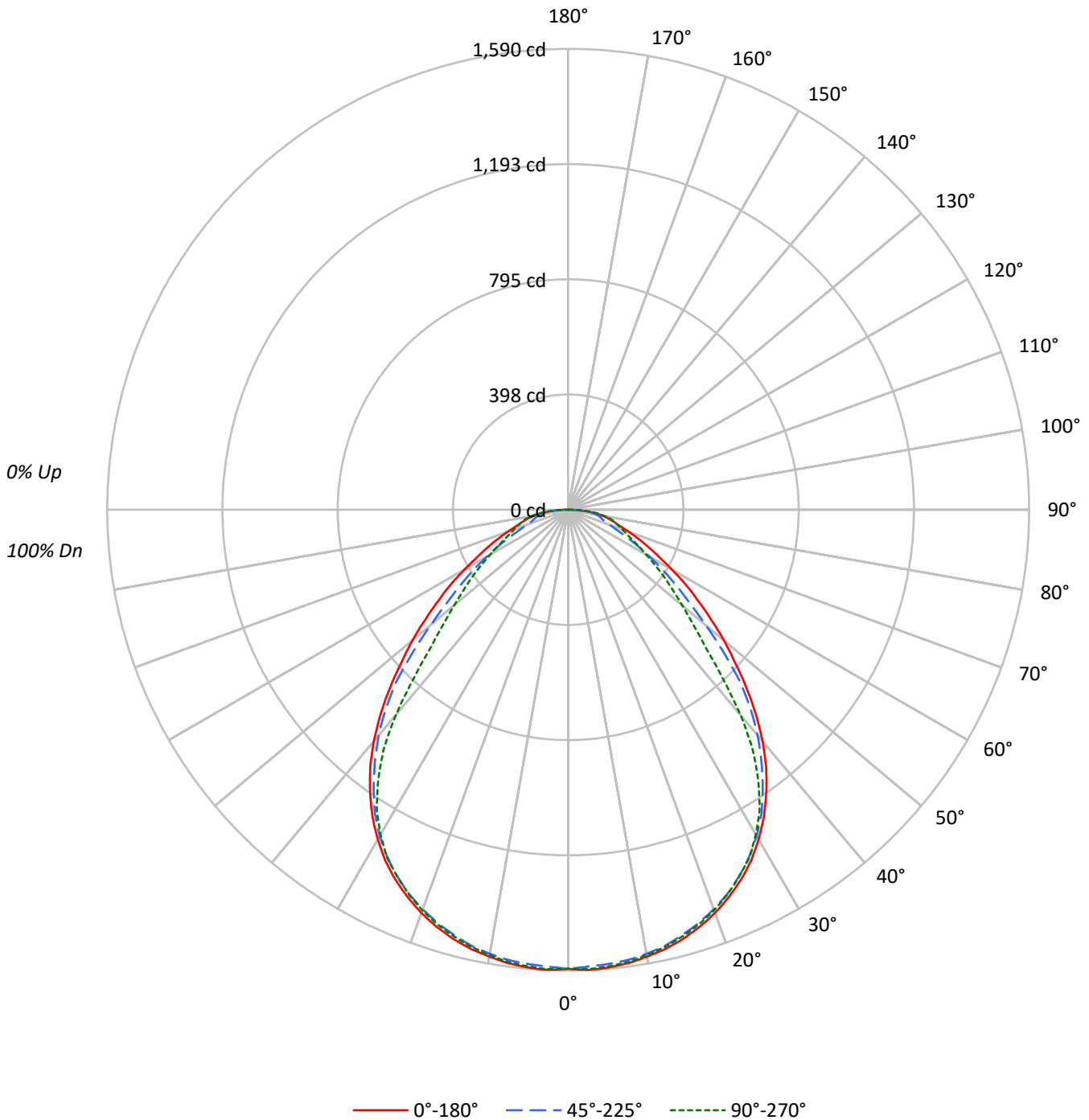
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5338	5338	5338
5°	5364	5323	5350
10°	5357	5324	5338
15°	5347	5299	5316
20°	5309	5260	5274
25°	5239	5188	5191
30°	5111	5058	5036
35°	4901	4812	4703
40°	4588	4471	4069
45°	4143	3987	3179
50°	3674	3236	2689
55°	3208	2655	2373
60°	2781	2186	2095
65°	2439	1754	1933
70°	2175	1488	1946
75°	2122	1567	2174
80°	2354	1979	2493
85°	2451	2111	2915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	4.3
10°-20°	430.6	12.5
20°-30°	644.1	18.6
30°-40°	727.1	21.0
40°-50°	616.8	17.8
50°-60°	417.3	12.1
60°-70°	249.1	7.2
70°-80°	156.0	4.5
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°	1225.0	35.4
0°-40°	1952.0	56.5
0°-60°	2986.2	86.4
0°-90°	3456.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1586	1581	1574	1585	1582	151
15°	1533	1530	1519	1530	1524	432
25°	1409	1404	1396	1402	1396	648
35°	1192	1184	1170	1159	1143	742
45°	870	873	837	717	667	670
55°	546	520	452	405	404	492
65°	306	254	220	234	242	306
75°	163	145	120	159	167	175
85°	63	60	55	71	75	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.1	1584.1	1584.1	1584.1	1584.1
2.5°	1589.8	1585.0	1577.7	1587.4	1586.5
5°	1585.7	1580.9	1573.7	1585.0	1581.7
7.5°	1578.5	1574.5	1567.3	1577.7	1574.5
10°	1565.6	1562.5	1556.0	1564.9	1560.1
12.5°	1552.0	1549.6	1541.6	1549.6	1544.8
15°	1532.8	1529.5	1519.1	1529.5	1523.9
17.5°	1508.7	1504.6	1495.8	1504.6	1499.8
20°	1480.6	1475.7	1466.9	1475.7	1470.9
22.5°	1446.9	1442.8	1434.8	1442.8	1436.4
25°	1409.1	1404.3	1395.5	1401.9	1396.2
27.5°	1365.8	1359.3	1351.3	1356.1	1352.9
30°	1313.6	1305.5	1299.9	1299.9	1294.3
32.5°	1256.5	1250.9	1241.3	1235.7	1228.5
35°	1191.5	1183.5	1169.8	1159.4	1143.3
37.5°	1121.7	1112.0	1095.2	1068.6	1047.0
40°	1043.0	1030.9	1016.5	964.3	925.0
42.5°	958.6	956.2	931.3	842.3	787.7
45°	869.5	872.7	836.6	717.0	667.2
47.5°	779.6	790.8	725.0	607.8	582.1
50°	700.9	704.9	617.4	527.5	513.0
52.5°	619.8	613.5	526.7	464.1	453.7
55°	546.0	520.2	452.0	404.6	403.9
57.5°	480.9	433.6	386.2	350.8	354.9
60°	412.7	359.7	324.4	305.1	310.8
62.5°	352.5	301.9	270.6	264.9	274.6
65°	305.9	253.7	220.0	234.5	242.4
67.5°	261.8	217.6	179.0	213.6	216.8
70°	220.8	188.7	151.0	196.7	197.5
72.5°	187.1	167.0	130.9	178.3	180.7
75°	163.0	145.3	120.4	158.9	167.0
77.5°	142.9	124.4	111.6	137.3	151.0
80°	121.3	100.3	102.0	114.8	128.5
82.5°	93.1	77.9	81.1	94.7	104.4
85°	63.4	60.3	54.6	70.6	75.4
87.5°	33.7	32.1	28.1	40.2	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)