

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: P213352

Luminaire Tested: **14GR-LD5-43-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F1-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684.2 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

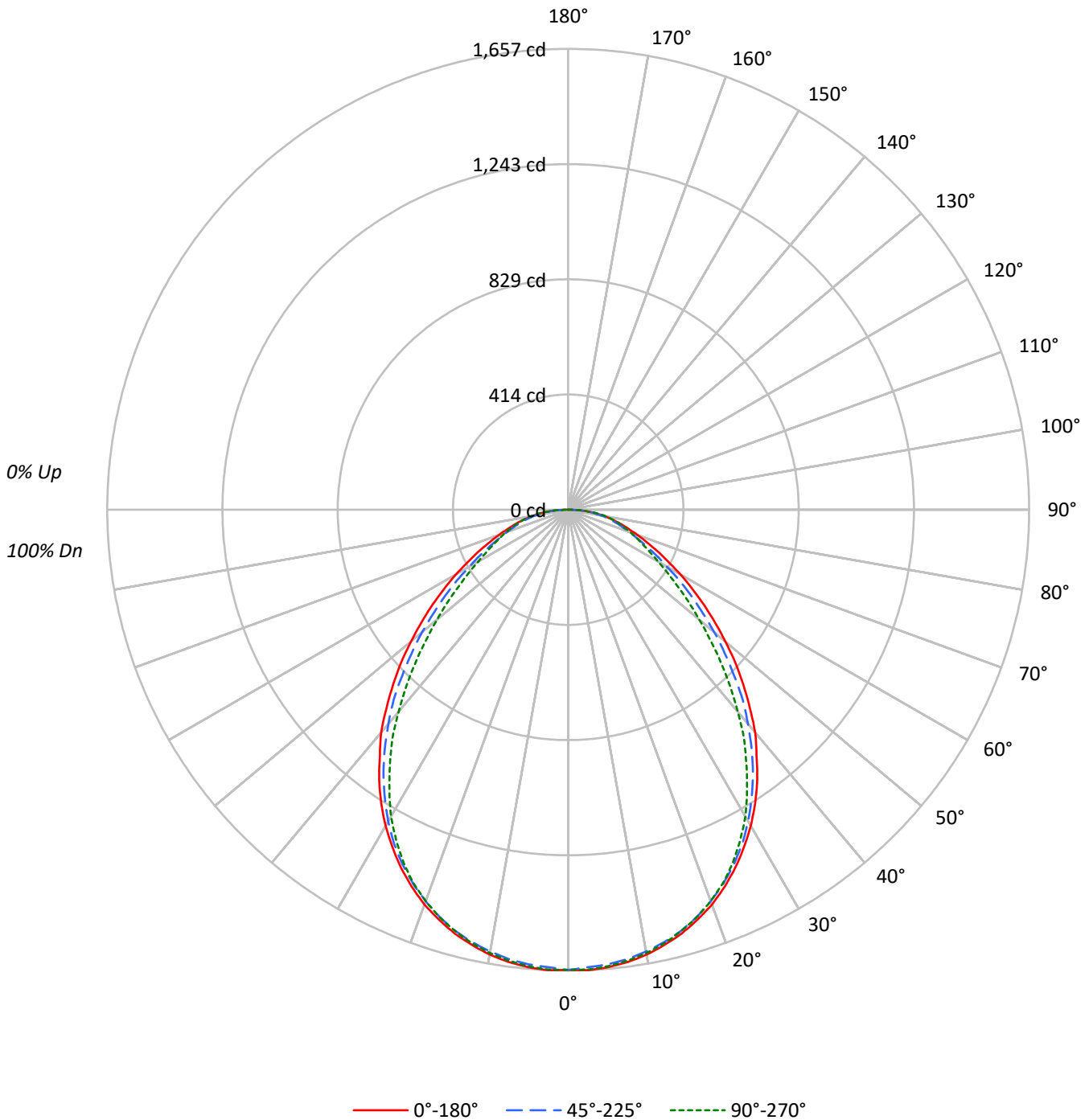
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36					34				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5576	5576	5576
5°	5585	5551	5574
10°	5559	5520	5538
15°	5502	5470	5472
20°	5419	5372	5369
25°	5282	5234	5206
30°	5106	5033	4956
35°	4872	4762	4592
40°	4600	4422	4169
45°	4242	4020	3696
50°	3863	3593	3228
55°	3491	3178	2814
60°	3141	2764	2515
65°	2818	2468	2358
70°	2601	2296	2339
75°	2507	2273	2463
80°	2521	2369	2670
85°	2695	2459	2791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	4.2
10°-20°	442.8	12.0
20°-30°	648.1	17.6
30°-40°	720.3	19.6
40°-50°	647.5	17.6
50°-60°	484.1	13.1
60°-70°	318.8	8.7
70°-80°	193.8	5.3
80°-90°	72.5	2.0
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°	1247.1	33.9
0°-40°	1967.4	53.4
0°-60°	3099.0	84.1
0°-90°	3684.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3684.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1651	1648	1641	1650	1648	157
15°	1577	1574	1568	1573	1569	444
25°	1421	1418	1408	1405	1400	653
35°	1184	1178	1158	1133	1116	739
45°	890	881	844	798	776	687
55°	594	581	541	496	479	533
65°	354	341	310	297	296	354
75°	193	184	175	183	189	205
85°	70	64	64	74	72	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.7	1654.7	1654.7	1654.7	1654.7
2.5°	1657.3	1653.9	1646.1	1655.6	1654.7
5°	1651.3	1647.8	1641.0	1649.6	1647.8
7.5°	1640.1	1635.8	1629.8	1638.4	1635.8
10°	1624.6	1620.3	1613.4	1622.9	1618.6
12.5°	1602.3	1599.7	1592.8	1599.7	1597.1
15°	1577.3	1573.9	1567.9	1573.0	1568.7
17.5°	1545.5	1542.1	1535.2	1542.1	1536.9
20°	1511.1	1506.8	1498.2	1503.4	1497.3
22.5°	1468.1	1463.8	1456.1	1458.6	1453.5
25°	1420.8	1418.2	1407.9	1405.3	1400.2
27.5°	1368.3	1364.0	1354.6	1349.4	1339.1
30°	1312.4	1308.1	1293.5	1284.9	1273.7
32.5°	1251.4	1244.5	1227.3	1212.7	1196.3
35°	1184.3	1178.3	1157.6	1132.7	1116.4
37.5°	1112.1	1108.6	1082.7	1051.8	1038.9
40°	1045.8	1032.9	1005.3	967.5	947.7
42.5°	966.6	958.0	928.8	886.7	861.7
45°	890.1	880.6	843.7	798.1	775.7
47.5°	815.3	805.0	762.8	718.1	692.3
50°	737.0	728.4	685.4	635.5	615.8
52.5°	663.9	652.7	608.0	563.3	546.1
55°	594.3	581.4	540.9	496.2	479.0
57.5°	528.0	512.6	473.9	435.2	424.0
60°	466.1	448.9	410.2	381.8	373.2
62.5°	405.9	393.0	358.6	337.1	332.0
65°	353.5	340.6	309.6	296.7	295.8
67.5°	305.3	292.4	268.3	264.9	266.6
70°	264.0	252.8	233.1	234.8	237.4
72.5°	225.3	215.0	203.0	207.3	212.4
75°	192.6	184.0	174.6	183.2	189.2
77.5°	161.7	153.1	147.9	156.5	163.4
80°	129.9	123.8	122.1	131.6	137.6
82.5°	100.6	95.5	92.9	104.9	107.5
85°	69.7	64.5	63.6	74.0	72.2
87.5°	37.0	32.7	32.7	38.7	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)