

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: P213311

Luminaire Tested: **14GR-LD5-43-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213311
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-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3420.4 lumens
Efficiency: N/A
Efficacy: 81.4 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

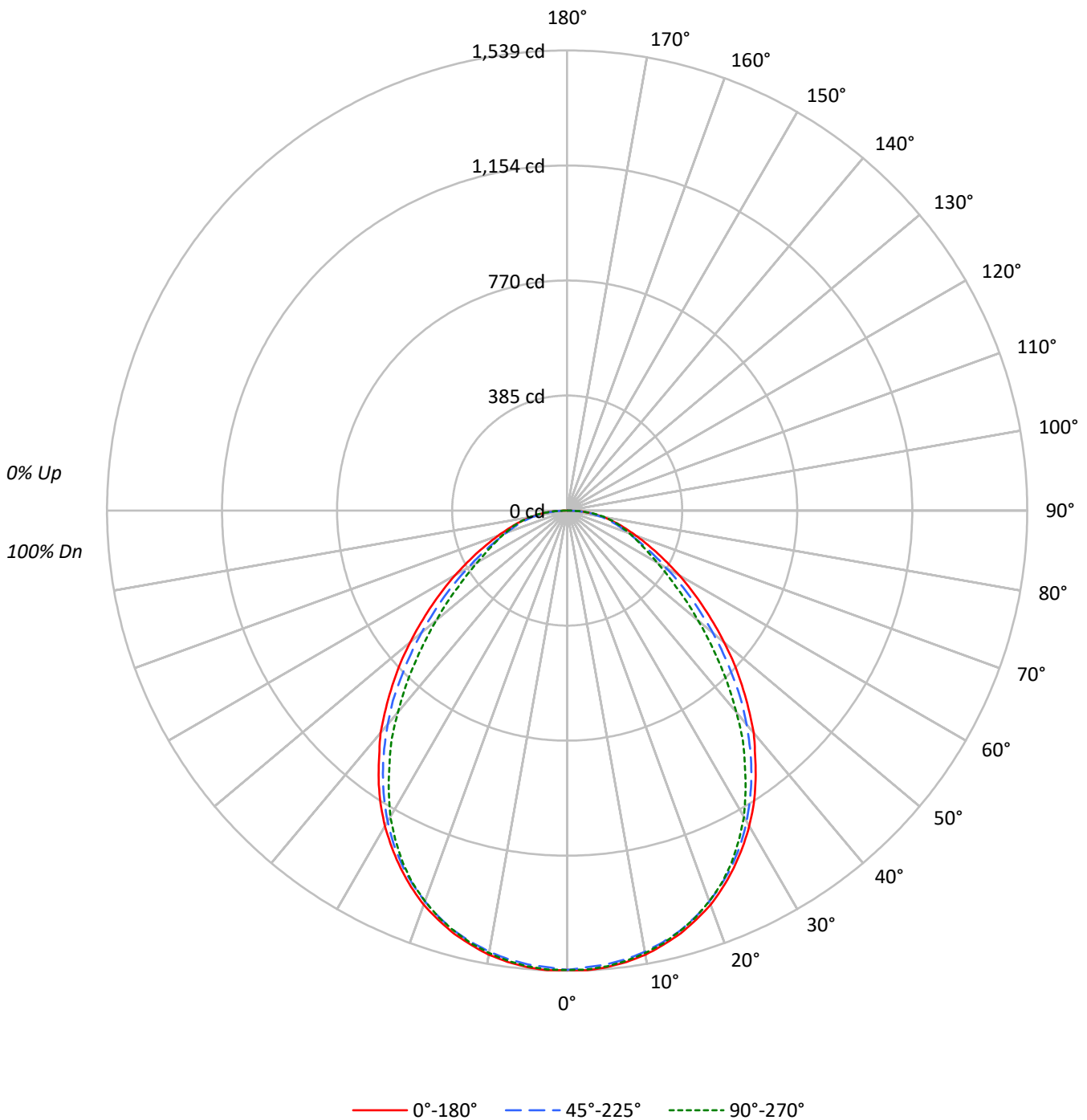
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	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°	5176	5176	5176
5°	5185	5153	5175
10°	5161	5125	5142
15°	5108	5078	5081
20°	5031	4988	4985
25°	4904	4860	4833
30°	4741	4672	4601
35°	4523	4421	4263
40°	4271	4106	3870
45°	3938	3733	3432
50°	3587	3336	2997
55°	3241	2950	2612
60°	2917	2567	2335
65°	2617	2291	2189
70°	2415	2132	2171
75°	2329	2110	2286
80°	2340	2200	2478
85°	2501	2285	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	4.2
10°-20°	411.0	12.0
20°-30°	601.6	17.6
30°-40°	668.7	19.5
40°-50°	601.1	17.6
50°-60°	449.5	13.1
60°-70°	296.0	8.7
70°-80°	180.0	5.3
80°-90°	67.3	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°	1157.8	33.9
0°-40°	1826.5	53.4
0°-60°	2877.1	84.1
0°-90°	3420.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1533	1530	1524	1531	1530	146
15°	1464	1461	1456	1460	1456	413
25°	1319	1317	1307	1305	1300	606
35°	1100	1094	1075	1052	1036	686
45°	826	818	783	741	720	638
55°	552	540	502	461	445	495
65°	328	316	287	276	275	328
75°	179	171	162	170	176	190
85°	65	60	59	69	67	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.2	1536.2	1536.2	1536.2	1536.2
2.5°	1538.7	1535.4	1528.2	1537.0	1536.2
5°	1533.0	1529.9	1523.5	1531.4	1529.9
7.5°	1522.6	1518.7	1513.1	1521.1	1518.7
10°	1508.3	1504.3	1497.9	1506.7	1502.7
12.5°	1487.5	1485.1	1478.7	1485.1	1482.7
15°	1464.4	1461.1	1455.6	1460.4	1456.4
17.5°	1434.8	1431.6	1425.3	1431.6	1426.9
20°	1402.9	1398.9	1390.9	1395.7	1390.1
22.5°	1362.9	1359.0	1351.7	1354.1	1349.4
25°	1319.0	1316.6	1307.1	1304.7	1299.9
27.5°	1270.3	1266.3	1257.5	1252.8	1243.2
30°	1218.4	1214.5	1200.8	1192.9	1182.5
32.5°	1161.8	1155.4	1139.4	1125.8	1110.6
35°	1099.5	1093.9	1074.7	1051.5	1036.4
37.5°	1032.4	1029.2	1005.2	976.5	964.5
40°	970.9	958.9	933.4	898.2	879.9
42.5°	897.5	889.5	862.3	823.2	800.0
45°	826.4	817.6	783.3	740.9	720.2
47.5°	757.0	747.3	708.2	666.7	642.8
50°	684.3	676.3	636.4	590.0	571.7
52.5°	616.4	606.1	564.5	523.0	507.0
55°	551.7	539.7	502.2	460.7	444.7
57.5°	490.3	475.8	440.0	404.0	393.7
60°	432.8	416.8	380.9	354.5	346.5
62.5°	376.9	364.9	332.9	313.0	308.2
65°	328.2	316.1	287.4	275.5	274.6
67.5°	283.4	271.5	249.1	245.9	247.5
70°	245.1	234.7	216.4	218.0	220.4
72.5°	209.2	199.6	188.4	192.4	197.2
75°	178.9	170.9	162.1	170.1	175.6
77.5°	150.1	142.1	137.4	145.3	151.7
80°	120.6	115.0	113.4	122.2	127.7
82.5°	93.5	88.6	86.2	97.4	99.8
85°	64.7	59.8	59.1	68.6	67.1
87.5°	34.4	30.4	30.4	35.9	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)