

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: P213310

Luminaire Tested: **14GR-LD5-40-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213310
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-LD5-40-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: 3229.5 lumens
Efficiency: N/A
Efficacy: 83.2 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

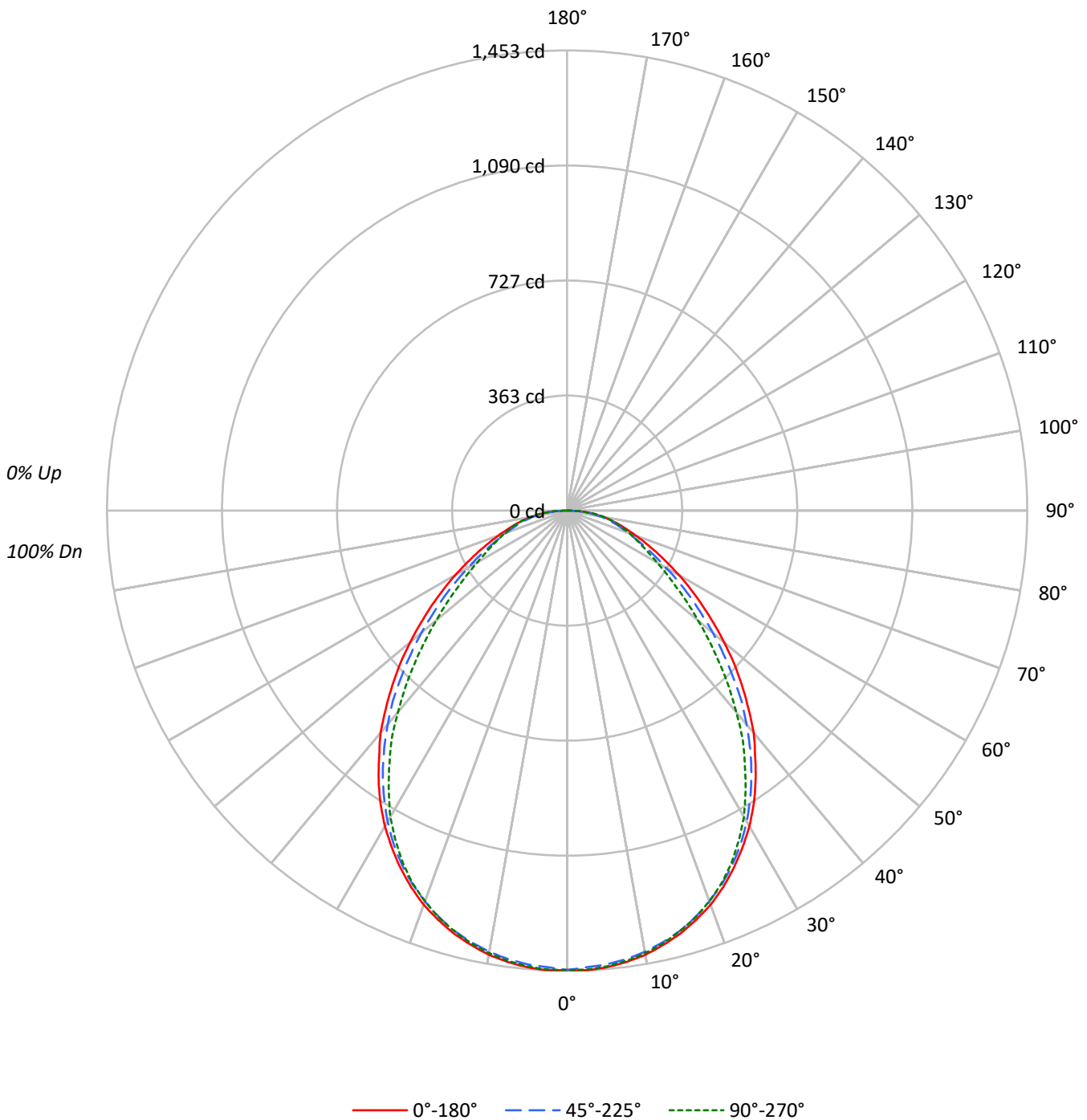
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4888	4888	4888
5°	4896	4865	4886
10°	4873	4839	4855
15°	4823	4794	4797
20°	4750	4709	4706
25°	4630	4588	4563
30°	4476	4412	4344
35°	4270	4174	4025
40°	4032	3877	3654
45°	3718	3524	3240
50°	3387	3149	2829
55°	3060	2786	2467
60°	2754	2423	2205
65°	2470	2164	2068
70°	2280	2013	2050
75°	2199	1993	2159
80°	2210	2078	2340
85°	2362	2157	2447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	4.2
10°-20°	388.1	12.0
20°-30°	568.1	17.6
30°-40°	631.4	19.6
40°-50°	567.6	17.6
50°-60°	424.4	13.1
60°-70°	279.5	8.7
70°-80°	169.9	5.3
80°-90°	63.6	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°	1093.2	33.9
0°-40°	1724.6	53.4
0°-60°	2716.6	84.1
0°-90°	3229.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1447	1444	1438	1446	1444	137
15°	1383	1380	1374	1379	1375	389
25°	1245	1243	1234	1232	1227	573
35°	1038	1033	1015	993	979	648
45°	780	772	740	700	680	602
55°	521	510	474	435	420	467
65°	310	299	271	260	259	310
75°	169	161	153	161	166	180
85°	61	56	56	65	63	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.5	1450.5	1450.5	1450.5	1450.5
2.5°	1452.7	1449.8	1443.0	1451.3	1450.5
5°	1447.4	1444.4	1438.4	1445.9	1444.4
7.5°	1437.6	1433.9	1428.6	1436.1	1433.9
10°	1424.1	1420.3	1414.3	1422.6	1418.8
12.5°	1404.5	1402.2	1396.2	1402.2	1400.0
15°	1382.6	1379.6	1374.3	1378.9	1375.1
17.5°	1354.7	1351.7	1345.7	1351.7	1347.2
20°	1324.6	1320.8	1313.3	1317.8	1312.5
22.5°	1286.9	1283.1	1276.4	1278.6	1274.0
25°	1245.4	1243.2	1234.1	1231.9	1227.3
27.5°	1199.4	1195.7	1187.4	1182.8	1173.8
30°	1150.5	1146.6	1133.9	1126.3	1116.5
32.5°	1096.9	1090.9	1075.8	1063.0	1048.6
35°	1038.1	1032.9	1014.8	992.8	978.6
37.5°	974.8	971.8	949.1	922.0	910.7
40°	916.7	905.4	881.3	848.1	830.7
42.5°	847.3	839.8	814.2	777.3	755.4
45°	780.3	772.0	739.5	699.6	680.0
47.5°	714.7	705.7	668.7	629.5	606.9
50°	646.1	638.5	600.8	557.1	539.7
52.5°	582.0	572.2	533.0	493.8	478.7
55°	520.9	509.6	474.2	435.0	419.9
57.5°	462.9	449.3	415.4	381.5	371.7
60°	408.6	393.5	359.6	334.7	327.2
62.5°	355.8	344.5	314.4	295.6	291.0
65°	309.8	298.6	271.4	260.1	259.4
67.5°	267.6	256.3	235.2	232.2	233.7
70°	231.4	221.6	204.3	205.8	208.1
72.5°	197.5	188.5	178.0	181.7	186.2
75°	168.9	161.4	153.1	160.6	165.8
77.5°	141.8	134.2	129.6	137.2	143.3
80°	113.9	108.6	107.1	115.4	120.6
82.5°	88.2	83.7	81.4	92.0	94.2
85°	61.1	56.5	55.8	64.8	63.3
87.5°	32.5	28.6	28.6	33.9	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)