

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: P213393

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213393
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-LD5-40-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: 3264.4 lumens
Efficiency: N/A
Efficacy: 84.1 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

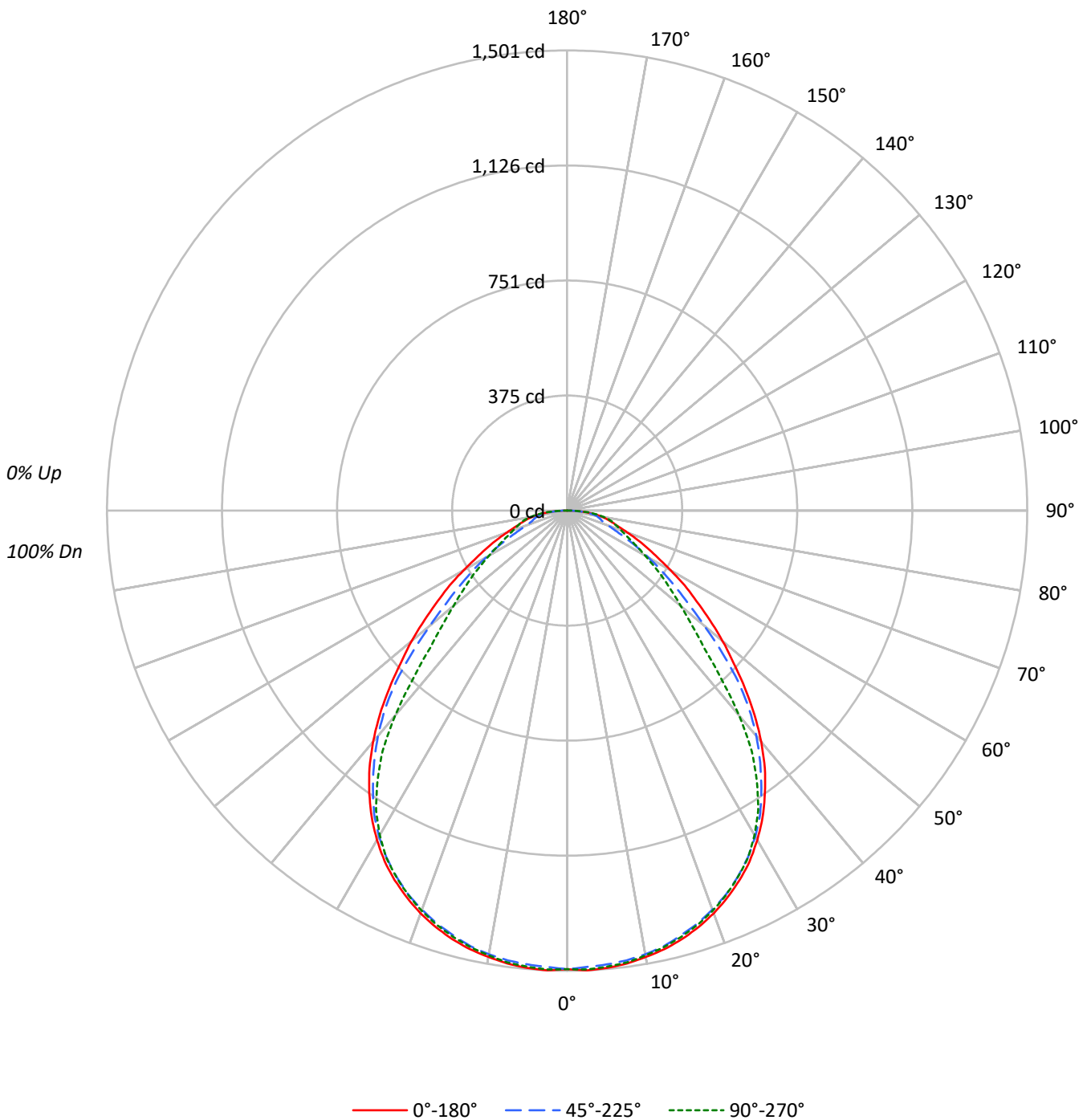
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5041	5041	5041
5°	5065	5026	5052
10°	5059	5027	5041
15°	5049	5004	5020
20°	5013	4967	4981
25°	4947	4899	4902
30°	4826	4776	4755
35°	4628	4544	4441
40°	4332	4222	3842
45°	3913	3765	3003
50°	3470	3057	2540
55°	3029	2508	2241
60°	2626	2064	1977
65°	2303	1656	1826
70°	2054	1404	1837
75°	2004	1480	2053
80°	2222	1869	2354
85°	2316	1991	2757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	4.3
10°-20°	406.6	12.5
20°-30°	608.2	18.6
30°-40°	686.6	21.0
40°-50°	582.5	17.8
50°-60°	394.1	12.1
60°-70°	235.2	7.2
70°-80°	147.3	4.5
80°-90°	62.0	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°	1156.7	35.4
0°-40°	1843.3	56.5
0°-60°	2819.9	86.4
0°-90°	3264.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1497	1493	1486	1497	1494	142
15°	1447	1444	1434	1444	1439	408
25°	1331	1326	1318	1324	1318	612
35°	1125	1118	1105	1095	1080	701
45°	821	824	790	677	630	633
55°	516	491	427	382	381	464
65°	289	240	208	221	229	289
75°	154	137	114	150	158	165
85°	60	57	52	67	71	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.9	1495.9	1495.9	1495.9	1495.9
2.5°	1501.2	1496.7	1489.8	1498.9	1498.1
5°	1497.4	1492.8	1486.0	1496.7	1493.6
7.5°	1490.6	1486.8	1480.0	1489.8	1486.8
10°	1478.5	1475.4	1469.3	1477.7	1473.2
12.5°	1465.5	1463.3	1455.7	1463.3	1458.7
15°	1447.4	1444.4	1434.5	1444.4	1439.1
17.5°	1424.6	1420.8	1412.5	1420.8	1416.3
20°	1398.1	1393.6	1385.2	1393.6	1389.0
22.5°	1366.3	1362.4	1354.9	1362.4	1356.4
25°	1330.6	1326.1	1317.7	1323.8	1318.5
27.5°	1289.7	1283.6	1276.0	1280.5	1277.5
30°	1240.4	1232.8	1227.5	1227.5	1222.2
32.5°	1186.6	1181.3	1172.1	1166.8	1160.0
35°	1125.1	1117.6	1104.6	1094.8	1079.7
37.5°	1059.2	1050.1	1034.2	1009.1	988.7
40°	984.9	973.5	959.9	910.6	873.4
42.5°	905.3	903.0	879.5	795.3	743.8
45°	821.1	824.1	790.0	677.0	630.1
47.5°	736.2	746.8	684.7	573.9	549.7
50°	661.9	665.7	583.1	498.1	484.5
52.5°	585.3	579.3	497.3	438.2	428.4
55°	515.6	491.3	426.9	382.1	381.4
57.5°	454.2	409.4	364.7	331.3	335.2
60°	389.7	339.6	306.3	288.1	293.4
62.5°	332.8	285.1	255.5	250.2	259.3
65°	288.8	239.6	207.7	221.4	229.0
67.5°	247.2	205.5	169.1	201.7	204.7
70°	208.5	178.2	142.5	185.8	186.5
72.5°	176.6	157.7	123.6	168.3	170.6
75°	153.9	137.2	113.7	150.1	157.7
77.5°	135.0	117.5	105.4	129.6	142.5
80°	114.5	94.8	96.3	108.4	121.3
82.5°	88.0	73.5	76.6	89.5	98.6
85°	59.9	56.9	51.5	66.7	71.3
87.5°	31.9	30.3	26.6	37.9	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)