

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: P225923

Luminaire Tested: **14GR-LD5-32-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225923
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-LD5-32-A-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.3 lumens
Efficiency: N/A
Efficacy: 96.3 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

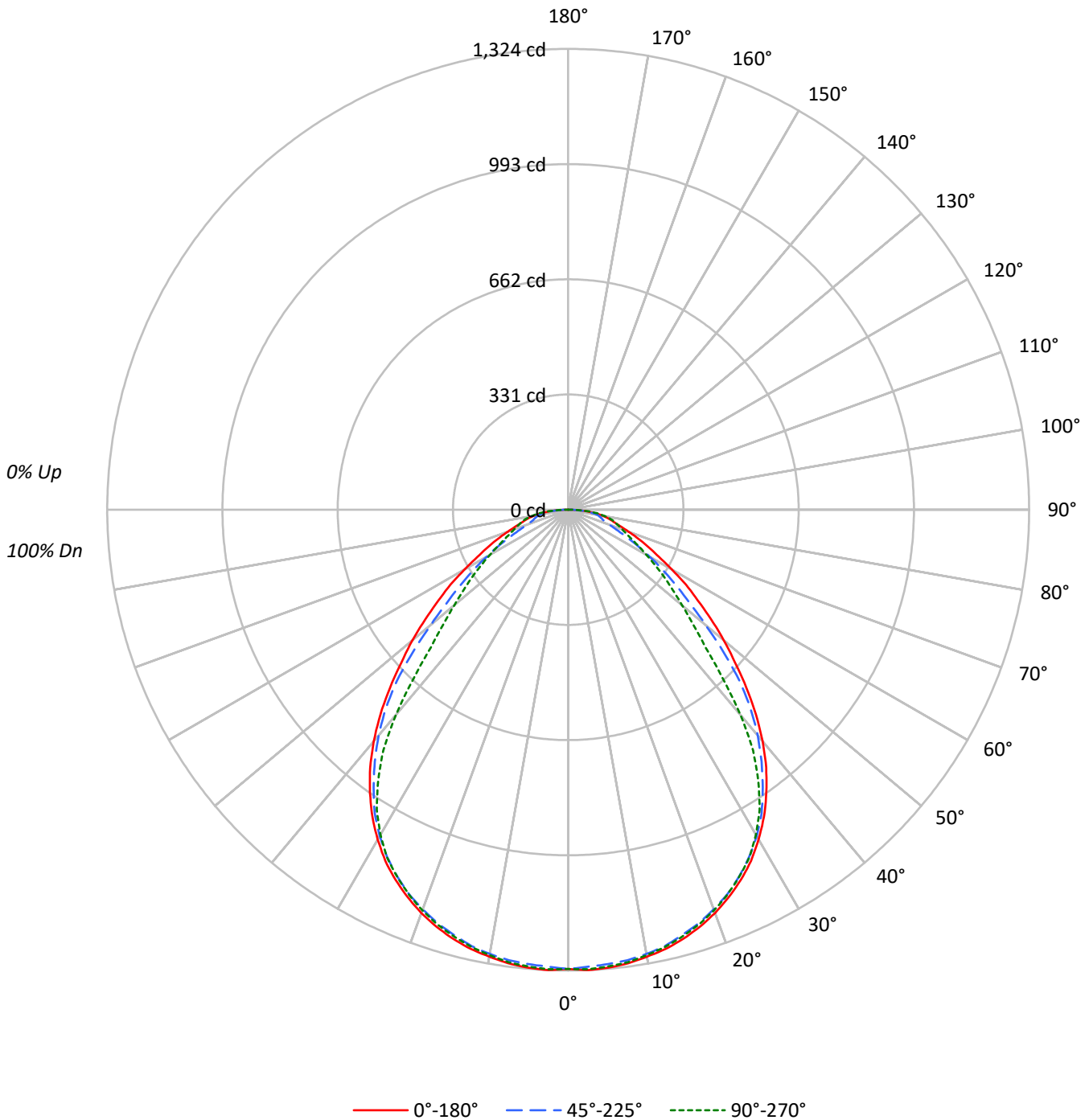
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4446	4446	4446
5°	4468	4433	4456
10°	4462	4434	4446
15°	4453	4414	4428
20°	4422	4381	4393
25°	4363	4321	4324
30°	4257	4213	4194
35°	4082	4008	3917
40°	3821	3724	3389
45°	3451	3321	2648
50°	3060	2696	2240
55°	2672	2212	1976
60°	2316	1820	1744
65°	2032	1461	1610
70°	1812	1238	1621
75°	1768	1306	1811
80°	1960	1649	2076
85°	2041	1759	2432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	4.3
10°-20°	358.6	12.5
20°-30°	536.5	18.6
30°-40°	605.6	21.0
40°-50°	513.7	17.8
50°-60°	347.6	12.1
60°-70°	207.5	7.2
70°-80°	129.9	4.5
80°-90°	54.7	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°	1020.3	35.4
0°-40°	1625.9	56.5
0°-60°	2487.2	86.4
0°-90°	2879.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1321	1317	1311	1320	1317	126
15°	1277	1274	1265	1274	1269	360
25°	1174	1170	1162	1168	1163	540
35°	992	986	974	966	952	618
45°	724	727	697	597	556	558
55°	455	433	376	337	336	410
65°	255	211	183	195	202	255
75°	136	121	100	132	139	146
85°	53	50	46	59	63	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1324.1	1320.1	1314.1	1322.1	1321.4
5°	1320.8	1316.7	1310.7	1320.1	1317.4
7.5°	1314.8	1311.4	1305.4	1314.1	1311.4
10°	1304.0	1301.4	1296.0	1303.3	1299.4
12.5°	1292.7	1290.7	1284.0	1290.7	1286.6
15°	1276.6	1273.9	1265.2	1273.9	1269.3
17.5°	1256.5	1253.2	1245.9	1253.2	1249.2
20°	1233.2	1229.1	1221.8	1229.1	1225.2
22.5°	1205.0	1201.7	1195.1	1201.7	1196.3
25°	1173.6	1169.6	1162.3	1167.6	1162.9
27.5°	1137.5	1132.2	1125.5	1129.5	1126.9
30°	1094.1	1087.4	1082.7	1082.7	1078.0
32.5°	1046.5	1041.9	1033.9	1029.2	1023.1
35°	992.4	985.7	974.4	965.7	952.3
37.5°	934.2	926.2	912.1	890.1	872.0
40°	868.7	858.6	846.6	803.2	770.4
42.5°	798.5	796.4	775.7	701.5	656.0
45°	724.2	726.9	696.9	597.2	555.7
47.5°	649.3	658.7	603.9	506.2	484.9
50°	583.8	587.1	514.3	439.4	427.3
52.5°	516.3	510.9	438.7	386.6	377.8
55°	454.8	433.4	376.5	337.0	336.3
57.5°	400.6	361.1	321.6	292.2	295.6
60°	343.7	299.6	270.1	254.1	258.8
62.5°	293.6	251.5	225.4	220.7	228.7
65°	254.8	211.3	183.3	195.3	201.9
67.5°	218.0	181.2	149.1	177.8	180.6
70°	183.9	157.1	125.7	163.8	164.5
72.5°	155.8	139.1	109.0	148.4	150.5
75°	135.8	121.0	100.3	132.4	139.1
77.5°	119.0	103.6	93.0	114.4	125.7
80°	101.0	83.6	85.0	95.6	107.0
82.5°	77.6	64.8	67.5	78.9	86.9
85°	52.8	50.1	45.5	58.8	62.9
87.5°	28.1	26.7	23.4	33.5	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)