

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: P229540

Luminaire Tested: **14RLN-LD5-35-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-UNV-L940-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

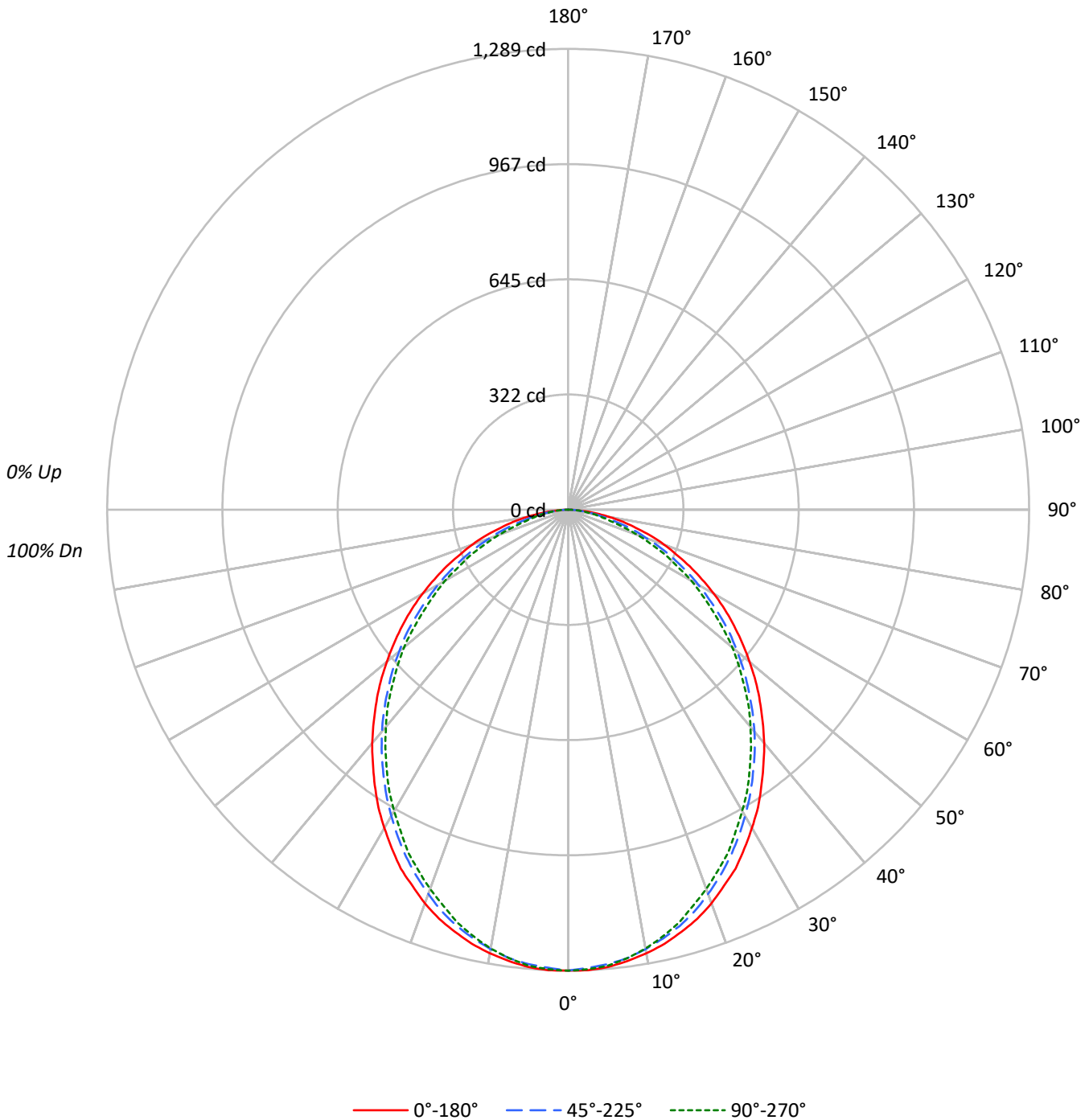
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4344	4344	4344
5°	4343	4316	4329
10°	4311	4270	4265
15°	4265	4204	4171
20°	4202	4101	4049
25°	4119	3985	3935
30°	3999	3848	3786
35°	3876	3706	3640
40°	3751	3563	3487
45°	3613	3396	3314
50°	3470	3232	3142
55°	3324	3050	2893
60°	3166	2833	2680
65°	2990	2597	2405
70°	2814	2301	2038
75°	2537	1963	1582
80°	2253	1554	1399
85°	1856	1237	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.9
10°-20°	340.0	11.0
20°-30°	495.6	16.1
30°-40°	568.2	18.4
40°-50°	555.5	18.0
50°-60°	468.6	15.2
60°-70°	327.6	10.6
70°-80°	167.0	5.4
80°-90°	42.1	1.4
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°	956.9	31.0
0°-40°	1525.1	49.4
0°-60°	2549.2	82.6
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1284	1281	1276	1280	1280	122
15°	1222	1218	1205	1201	1196	345
25°	1108	1094	1072	1061	1058	509
35°	942	929	901	892	885	589
45°	758	738	713	703	695	585
55°	566	544	519	504	492	506
65°	375	352	326	307	302	371
75°	195	179	151	132	122	210
85°	48	36	32	33	33	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1289.3	1286.6	1282.6	1287.9	1286.6
5°	1283.9	1281.3	1275.9	1279.9	1279.9
7.5°	1273.3	1270.6	1265.2	1267.9	1265.2
10°	1259.9	1257.2	1247.9	1249.2	1246.6
12.5°	1243.9	1238.6	1227.9	1226.5	1222.5
15°	1222.5	1218.5	1205.2	1201.2	1195.8
17.5°	1199.8	1191.8	1177.2	1169.2	1161.1
20°	1171.8	1161.1	1143.8	1134.5	1129.1
22.5°	1138.5	1130.4	1109.1	1098.4	1093.1
25°	1107.8	1094.4	1071.7	1061.0	1058.4
27.5°	1067.7	1057.0	1031.7	1022.3	1014.3
30°	1027.7	1015.7	989.0	979.6	973.0
32.5°	987.6	974.3	946.3	935.6	931.6
35°	942.3	928.9	900.9	891.5	884.9
37.5°	896.9	880.9	856.8	846.2	839.5
40°	852.8	834.2	810.1	798.1	792.8
42.5°	804.8	784.8	762.1	750.1	747.4
45°	758.1	738.1	712.7	703.4	695.4
47.5°	711.4	688.7	666.0	652.6	647.3
50°	662.0	640.6	616.6	603.3	599.3
52.5°	613.9	592.6	569.9	555.2	545.9
55°	565.9	544.5	519.2	504.5	492.5
57.5°	519.2	493.8	468.5	451.1	444.4
60°	469.8	447.1	420.4	403.1	397.7
62.5°	421.7	401.7	373.7	353.7	344.3
65°	375.0	352.3	325.7	307.0	301.6
67.5°	327.0	307.0	280.3	258.9	249.6
70°	285.6	260.3	233.6	214.9	206.9
72.5°	241.6	218.9	193.5	172.2	160.2
75°	194.9	178.8	150.8	132.1	121.5
77.5°	157.5	138.8	113.4	98.8	96.1
80°	116.1	101.4	80.1	73.4	72.1
82.5°	81.4	66.7	54.7	52.1	50.7
85°	48.0	36.0	32.0	33.4	33.4
87.5°	20.0	14.7	14.7	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)