

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: P229530

Luminaire Tested: **14RLN-LD5-35-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229530
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-L930-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

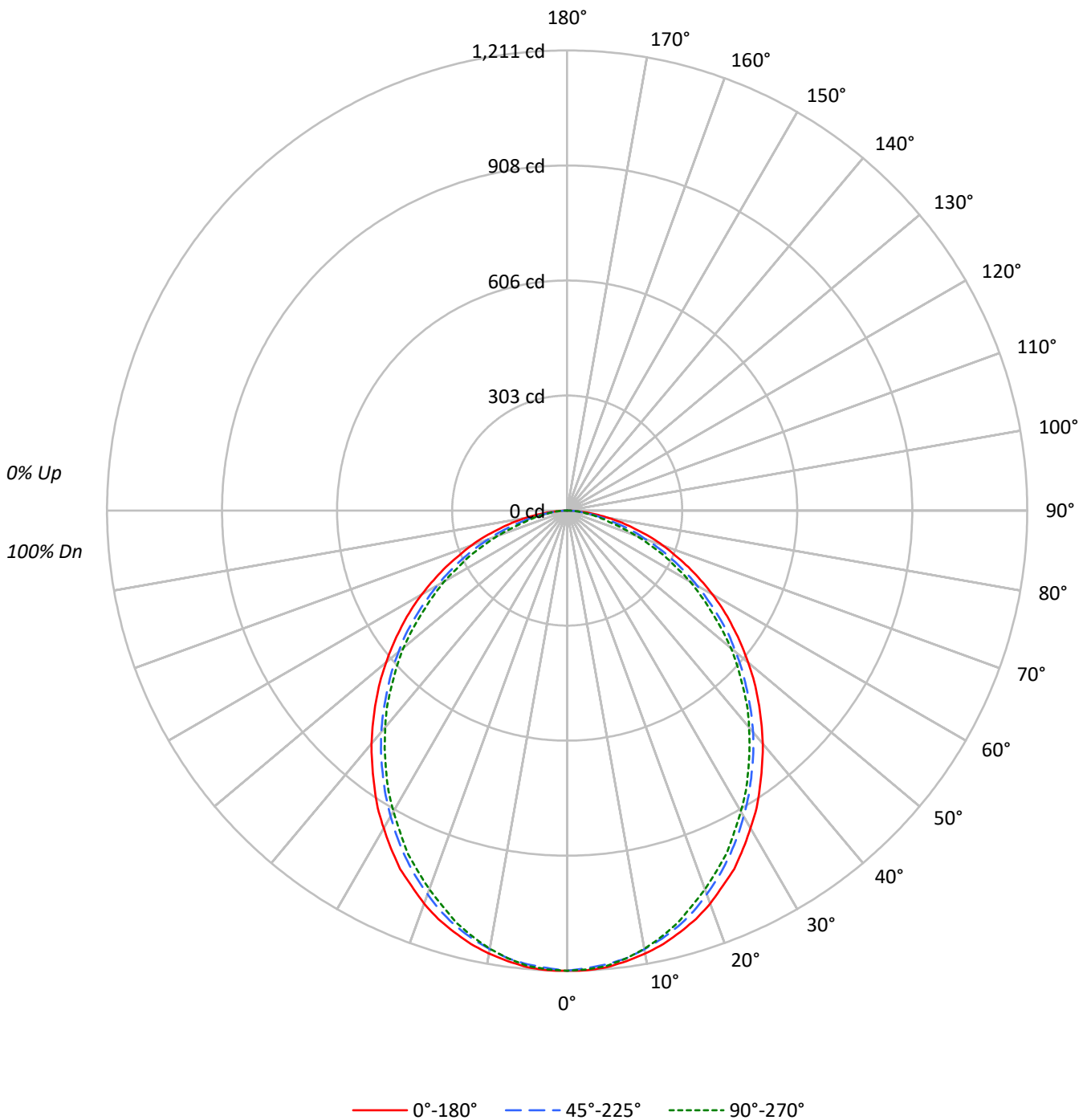
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229530

CATALOG NUMBER: 14RLN-LD5-35-UNV-L930-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229530

CATALOG NUMBER: 14RLN-LD5-35-UNV-L930-CD1-SVPD1-U

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°	4081	4081	4081
5°	4080	4054	4067
10°	4050	4011	4007
15°	4006	3950	3919
20°	3947	3853	3804
25°	3869	3743	3696
30°	3756	3615	3556
35°	3641	3481	3420
40°	3524	3347	3276
45°	3393	3190	3113
50°	3260	3036	2951
55°	3123	2865	2718
60°	2974	2661	2518
65°	2809	2439	2260
70°	2643	2162	1914
75°	2384	1845	1485
80°	2117	1459	1314
85°	1744	1164	1210



TEST NUMBER: P229530

CATALOG NUMBER: 14RLN-LD5-35-UNV-L930-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.9
10°-20°	319.4	11.0
20°-30°	465.6	16.1
30°-40°	533.7	18.4
40°-50°	521.8	18.0
50°-60°	440.2	15.2
60°-70°	307.7	10.6
70°-80°	156.9	5.4
80°-90°	39.6	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°	899.0	31.0
0°-40°	1432.7	49.4
0°-60°	2394.8	82.6
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1206	1204	1199	1202	1202	114
15°	1148	1145	1132	1128	1123	324
25°	1041	1028	1007	997	994	478
35°	885	873	846	838	831	554
45°	712	693	670	661	653	550
55°	532	512	488	474	463	476
65°	352	331	306	288	283	349
75°	183	168	142	124	114	197
85°	45	34	30	31	31	53
90°	0	0	0	0	0	



TEST NUMBER: P229530

CATALOG NUMBER: 14RLN-LD5-35-UNV-L930-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1211.1	1208.6	1204.9	1209.9	1208.6
5°	1206.1	1203.6	1198.6	1202.4	1202.4
7.5°	1196.1	1193.6	1188.6	1191.1	1188.6
10°	1183.6	1181.1	1172.3	1173.5	1171.0
12.5°	1168.5	1163.5	1153.5	1152.2	1148.5
15°	1148.5	1144.7	1132.2	1128.4	1123.4
17.5°	1127.1	1119.6	1105.8	1098.3	1090.8
20°	1100.8	1090.8	1074.5	1065.7	1060.7
22.5°	1069.5	1061.9	1041.9	1031.9	1026.8
25°	1040.6	1028.1	1006.8	996.8	994.2
27.5°	1003.0	993.0	969.2	960.4	952.9
30°	965.4	954.1	929.0	920.3	914.0
32.5°	927.8	915.3	888.9	878.9	875.1
35°	885.2	872.6	846.3	837.5	831.3
37.5°	842.5	827.5	804.9	794.9	788.6
40°	801.2	783.6	761.0	749.8	744.7
42.5°	756.0	737.2	715.9	704.6	702.1
45°	712.1	693.3	669.5	660.7	653.2
47.5°	668.3	646.9	625.6	613.1	608.1
50°	621.9	601.8	579.2	566.7	562.9
52.5°	576.7	556.7	535.4	521.6	512.8
55°	531.6	511.5	487.7	473.9	462.6
57.5°	487.7	463.9	440.1	423.8	417.5
60°	441.3	420.0	394.9	378.6	373.6
62.5°	396.2	377.4	351.1	332.3	323.5
65°	352.3	331.0	305.9	288.4	283.4
67.5°	307.2	288.4	263.3	243.2	234.5
70°	268.3	244.5	219.4	201.9	194.3
72.5°	226.9	205.6	181.8	161.7	150.5
75°	183.1	168.0	141.7	124.1	114.1
77.5°	147.9	130.4	106.6	92.8	90.3
80°	109.1	95.3	75.2	69.0	67.7
82.5°	76.5	62.7	51.4	48.9	47.6
85°	45.1	33.9	30.1	31.3	31.3
87.5°	18.8	13.8	13.8	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)