

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: P229475

Luminaire Tested: **14RLN-LD5-35-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
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-L935-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

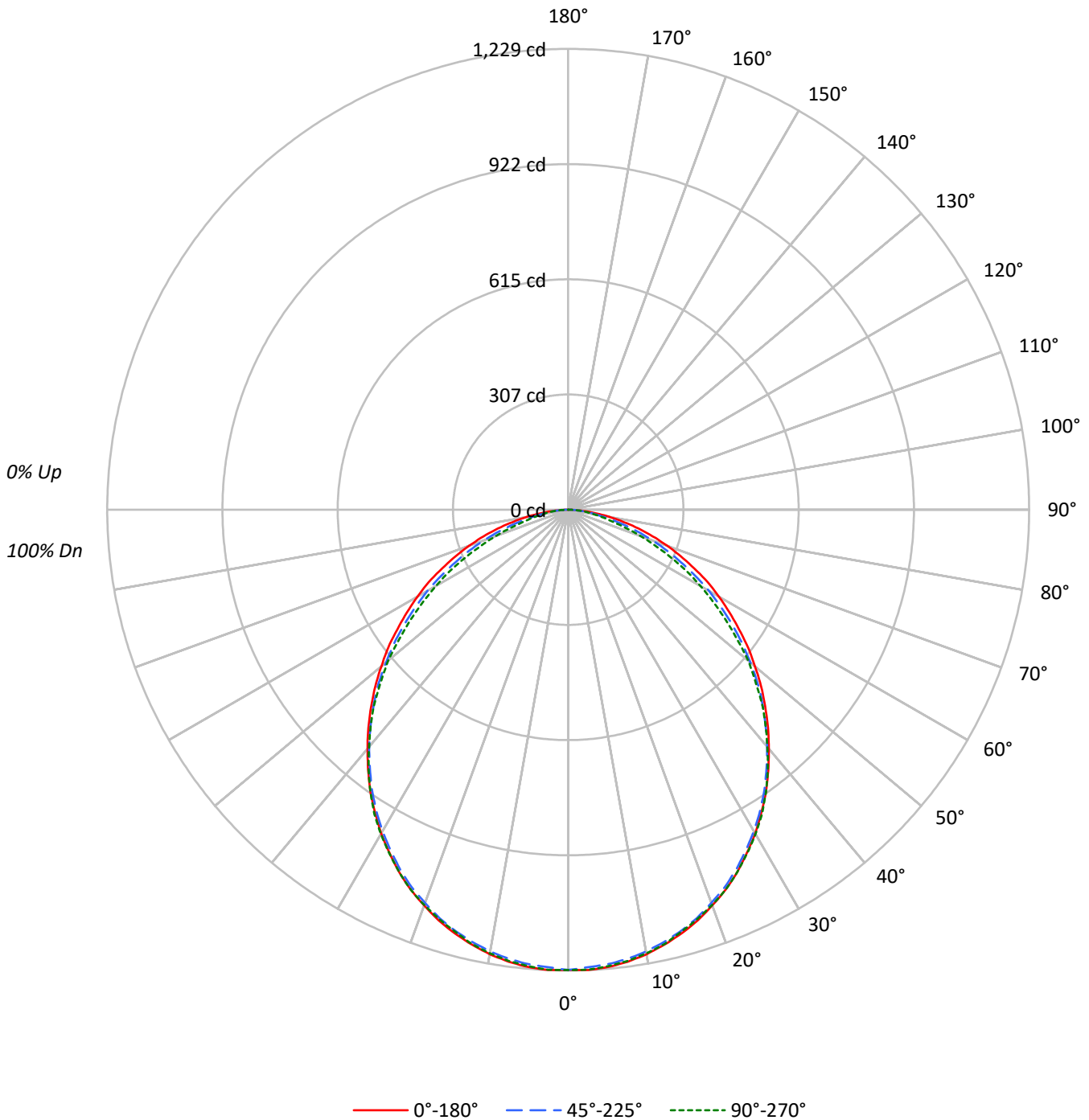
Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P229475
CATALOG NUMBER: 14RLN-LD5-35-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229475

CATALOG NUMBER: 14RLN-LD5-35-UNV-L935-CD1-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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72					72			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4135	4135	4135
5°	4141	4115	4133
10°	4119	4093	4111
15°	4080	4056	4064
20°	4028	4001	4023
25°	3965	3937	3965
30°	3881	3852	3887
35°	3782	3751	3782
40°	3660	3630	3633
45°	3539	3492	3481
50°	3408	3320	3285
55°	3266	3133	3017
60°	3128	2924	2745
65°	2957	2643	2419
70°	2758	2347	2032
75°	2528	1965	1570
80°	2179	1473	1354
85°	1759	1233	1260



TEST NUMBER: P229475

CATALOG NUMBER: 14RLN-LD5-35-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.8
10°-20°	329.0	10.7
20°-30°	489.6	15.9
30°-40°	572.3	18.5
40°-50°	565.6	18.3
50°-60°	477.6	15.5
60°-70°	330.8	10.7
70°-80°	165.1	5.3
80°-90°	41.1	1.3
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°	934.5	30.3
0°-40°	1506.8	48.8
0°-60°	2550.1	82.6
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1224	1222	1217	1223	1222	116
15°	1170	1168	1163	1168	1165	330
25°	1066	1064	1059	1066	1066	491
35°	919	915	912	919	919	574
45°	743	734	733	731	730	573
55°	556	546	533	522	514	498
65°	371	354	332	314	303	368
75°	194	177	151	130	121	205
85°	46	35	32	32	33	53
90°	0	0	0	0	0	



TEST NUMBER: P229475

CATALOG NUMBER: 14RLN-LD5-35-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.3	1227.3	1227.3	1227.3	1227.3
2.5°	1228.8	1226.6	1221.2	1227.3	1228.1
5°	1224.3	1222.0	1216.7	1222.8	1222.0
7.5°	1215.9	1212.9	1208.4	1213.7	1213.7
10°	1203.8	1201.5	1196.2	1202.3	1201.5
12.5°	1187.9	1186.4	1181.0	1187.1	1186.4
15°	1169.7	1168.1	1162.8	1168.1	1165.1
17.5°	1148.4	1147.7	1141.6	1145.4	1144.6
20°	1123.4	1121.9	1115.8	1123.4	1121.9
22.5°	1096.8	1093.8	1090.0	1096.1	1096.8
25°	1066.5	1063.5	1058.9	1065.7	1066.5
27.5°	1031.6	1029.3	1024.8	1034.6	1033.1
30°	997.5	995.2	989.9	998.2	999.0
32.5°	958.0	955.8	952.0	960.3	961.8
35°	919.3	914.8	911.8	918.6	919.3
37.5°	876.1	871.6	868.5	875.4	873.8
40°	832.1	826.8	825.3	830.6	826.0
42.5°	788.9	782.1	779.0	782.1	779.0
45°	742.6	734.3	732.7	731.2	730.5
47.5°	697.9	688.8	685.0	679.7	675.9
50°	650.1	640.2	633.4	628.1	626.6
52.5°	605.3	593.9	584.1	579.5	567.4
55°	556.0	546.1	533.3	521.9	513.5
57.5°	509.7	496.8	481.7	469.5	458.9
60°	464.2	447.5	433.9	414.9	407.3
62.5°	419.5	400.5	381.5	361.1	357.3
65°	370.9	353.5	331.5	314.0	303.4
67.5°	324.7	306.4	285.2	260.9	251.1
70°	279.9	260.2	238.2	214.7	206.3
72.5°	236.7	216.9	194.2	169.2	159.3
75°	194.2	176.7	150.9	130.5	120.6
77.5°	150.9	136.5	111.5	94.8	93.3
80°	112.3	99.4	75.9	72.1	69.8
82.5°	77.4	65.2	53.9	51.6	50.1
85°	45.5	34.9	31.9	31.9	32.6
87.5°	17.4	15.2	15.2	15.2	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)