

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: P229570

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L940-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

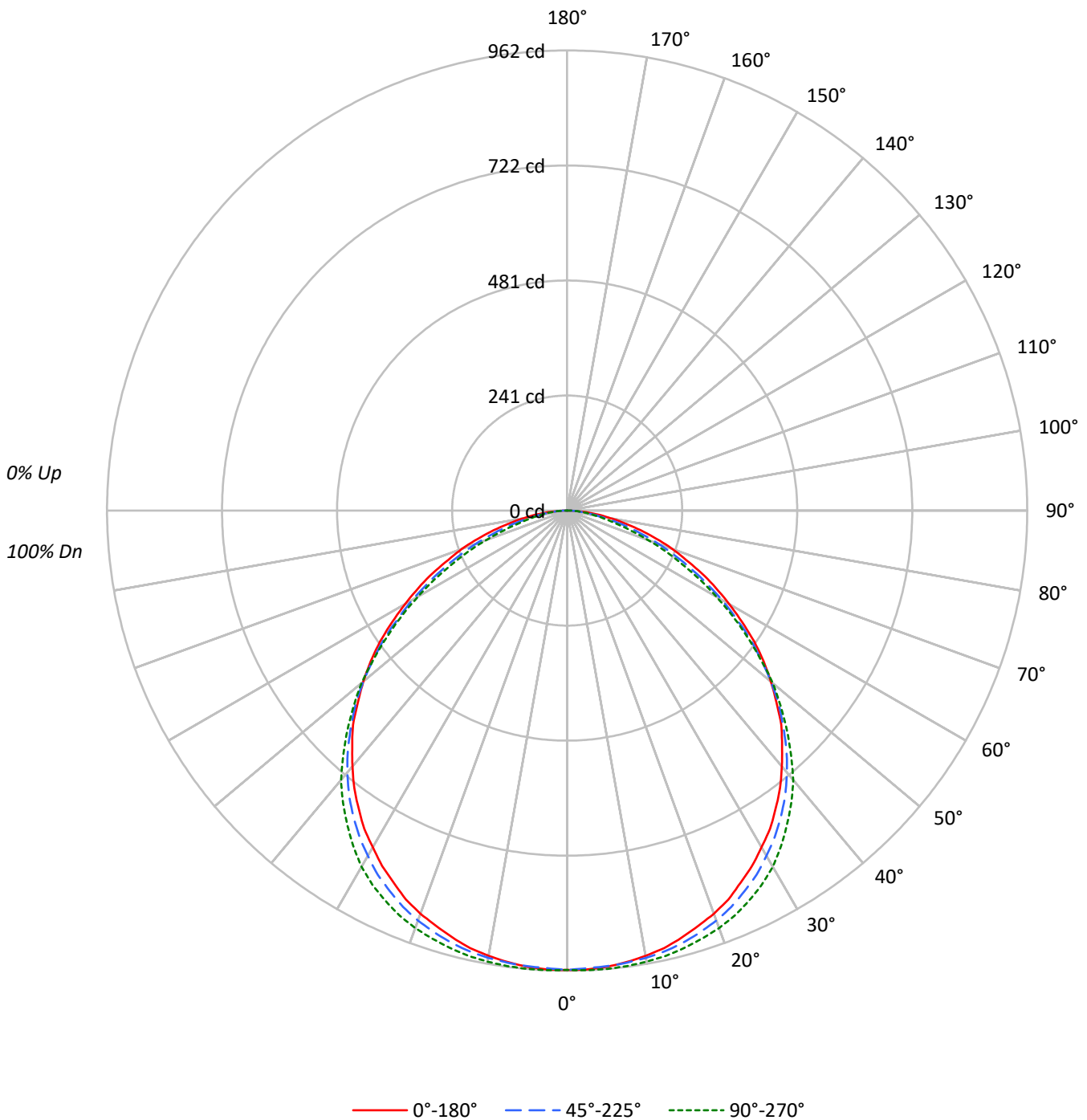
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3236	3236	3236
5°	3239	3234	3253
10°	3234	3248	3276
15°	3225	3263	3302
20°	3216	3270	3330
25°	3191	3262	3345
30°	3162	3243	3345
35°	3127	3207	3297
40°	3071	3144	3235
45°	3018	3044	3097
50°	2915	2915	2944
55°	2805	2740	2699
60°	2640	2520	2427
65°	2475	2266	2112
70°	2297	1998	1767
75°	2066	1689	1401
80°	1793	1312	1178
85°	1546	1121	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.5
10°-20°	264.3	10.1
20°-30°	405.2	15.5
30°-40°	488.1	18.6
40°-50°	493.1	18.8
50°-60°	416.1	15.9
60°-70°	282.9	10.8
70°-80°	140.2	5.4
80°-90°	35.8	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°	760.8	29.1
0°-40°	1248.8	47.7
0°-60°	2158.1	82.5
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	958	958	956	960	962	91
15°	924	929	936	944	946	261
25°	858	865	878	896	900	396
35°	760	766	780	798	802	475
45°	633	629	639	650	650	486
55°	477	468	466	462	460	425
65°	310	295	284	270	265	307
75°	159	146	130	113	108	169
85°	40	30	29	29	29	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.3	960.3	960.3	960.3	960.3
2.5°	960.3	960.3	957.5	961.7	961.7
5°	957.5	957.5	956.2	960.3	961.7
7.5°	952.0	953.4	953.4	958.9	960.3
10°	945.1	946.5	949.3	956.2	957.5
12.5°	936.9	939.6	943.8	950.6	953.4
15°	924.4	928.6	935.5	943.8	946.5
17.5°	910.6	916.2	924.4	935.5	938.2
20°	896.8	901.0	912.0	924.4	928.6
22.5°	880.3	885.8	896.8	910.6	916.2
25°	858.2	865.1	877.5	895.5	899.6
27.5°	837.5	844.4	858.2	876.1	881.7
30°	812.7	821.0	833.4	852.7	859.6
32.5°	789.2	793.4	808.5	826.5	832.0
35°	760.2	765.8	779.6	797.5	801.6
37.5°	731.3	735.4	749.2	765.8	769.9
40°	698.2	702.3	714.7	731.3	735.4
42.5°	665.0	667.8	678.8	692.6	692.6
45°	633.3	629.2	638.8	649.9	649.9
47.5°	593.3	593.3	600.2	605.7	605.7
50°	556.0	553.3	556.0	558.8	561.6
52.5°	517.4	511.9	510.5	510.5	509.1
55°	477.4	467.7	466.4	462.2	459.5
57.5°	433.2	426.3	418.1	412.5	409.8
60°	391.8	379.4	373.9	364.3	360.1
62.5°	350.5	339.4	327.0	317.3	313.2
65°	310.4	295.3	284.2	270.4	264.9
67.5°	269.1	255.3	241.5	229.0	223.5
70°	233.2	216.6	202.8	184.9	179.4
72.5°	195.9	180.7	164.2	147.6	140.7
75°	158.7	146.3	129.7	113.1	107.6
77.5°	124.2	113.1	96.6	82.8	81.4
80°	92.4	82.8	67.6	62.1	60.7
82.5°	66.2	55.2	45.5	44.2	44.2
85°	40.0	30.4	29.0	29.0	29.0
87.5°	15.2	13.8	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)