

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: P229495

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L840-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

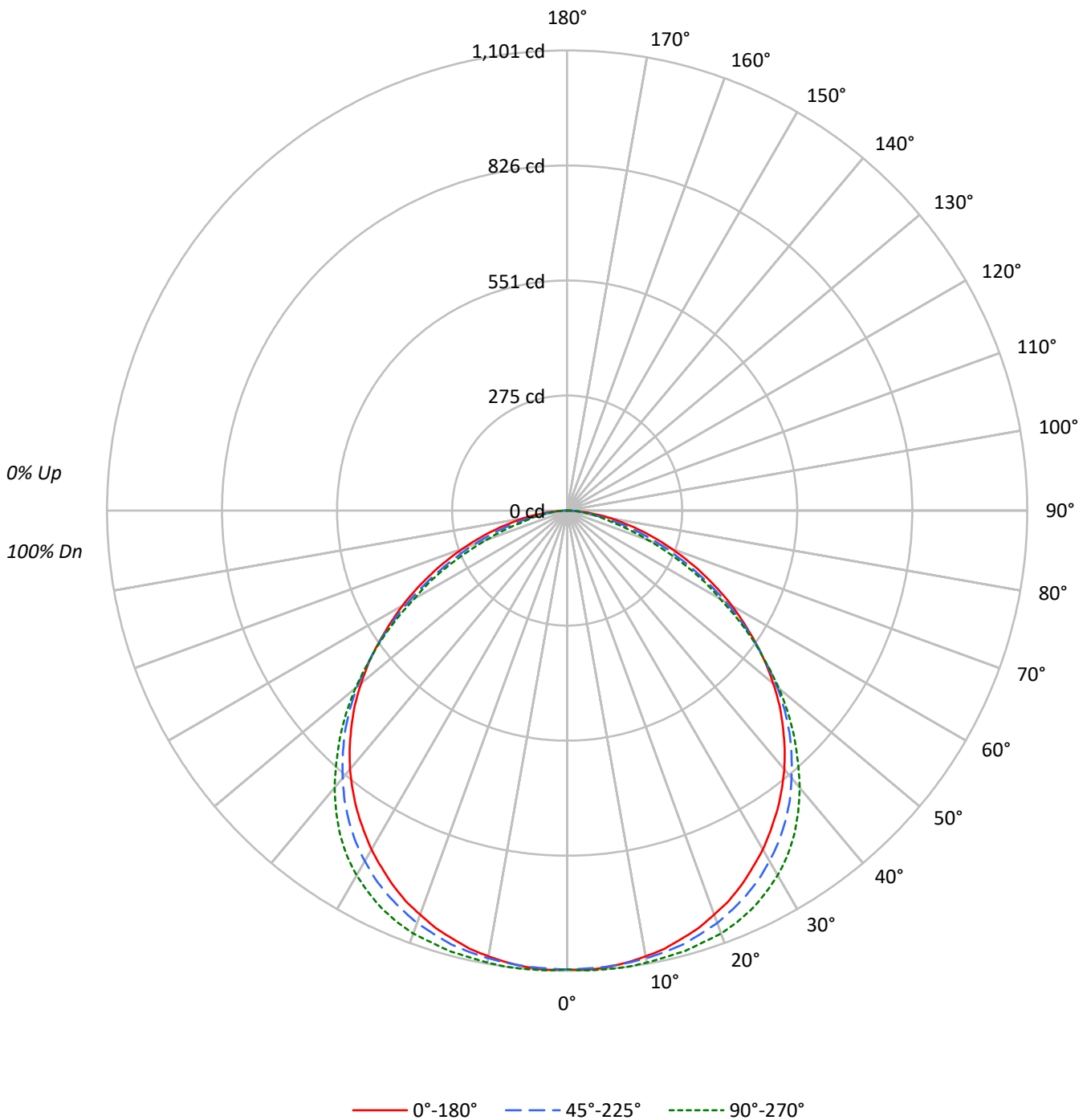
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3700	3700	3700
5°	3710	3704	3725
10°	3706	3721	3758
15°	3700	3747	3805
20°	3689	3765	3862
25°	3673	3774	3903
30°	3644	3768	3920
35°	3604	3741	3896
40°	3555	3675	3808
45°	3477	3585	3664
50°	3373	3437	3468
55°	3230	3222	3203
60°	3064	2963	2851
65°	2854	2649	2505
70°	2605	2322	2024
75°	2341	1927	1514
80°	2082	1407	1320
85°	1635	1168	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.4
10°-20°	303.8	10.0
20°-30°	468.9	15.4
30°-40°	568.7	18.7
40°-50°	577.4	19.0
50°-60°	488.4	16.1
60°-70°	330.5	10.9
70°-80°	159.8	5.3
80°-90°	39.0	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°	877.3	28.8
0°-40°	1445.9	47.5
0°-60°	2511.8	82.6
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1097	1097	1095	1100	1101	104
15°	1060	1066	1074	1086	1091	299
25°	988	996	1015	1041	1050	455
35°	876	885	909	938	947	548
45°	730	731	752	767	769	563
55°	550	545	548	548	545	492
65°	358	343	332	319	314	355
75°	180	166	148	128	116	192
85°	42	33	30	30	30	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.2	1098.2	1098.2	1098.2	1098.2
2.5°	1099.7	1099.7	1096.7	1099.7	1101.2
5°	1096.7	1096.7	1095.2	1099.7	1101.2
7.5°	1090.7	1092.2	1092.2	1098.2	1101.2
10°	1083.1	1086.1	1087.6	1096.7	1098.2
12.5°	1074.0	1077.1	1081.6	1092.2	1093.7
15°	1060.5	1066.5	1074.0	1086.1	1090.7
17.5°	1046.9	1052.9	1062.0	1078.6	1083.1
20°	1028.7	1036.3	1049.9	1069.5	1077.1
22.5°	1010.6	1016.6	1033.3	1057.4	1065.0
25°	987.9	995.5	1015.1	1040.8	1049.9
27.5°	962.3	972.8	994.0	1021.2	1030.2
30°	936.6	945.6	968.3	998.5	1007.6
32.5°	906.4	915.4	941.1	969.8	980.4
35°	876.2	885.2	909.4	938.1	947.2
37.5°	842.9	849.0	874.6	898.8	907.9
40°	808.2	812.7	835.4	859.5	865.6
42.5°	770.4	773.4	794.6	815.7	817.2
45°	729.6	731.1	752.3	767.4	768.9
47.5°	688.8	687.3	705.5	716.0	717.5
50°	643.5	643.5	655.6	661.6	661.6
52.5°	598.2	595.2	601.2	605.8	601.2
55°	549.9	545.3	548.4	548.4	545.3
57.5°	501.5	492.5	494.0	490.9	483.4
60°	454.7	444.1	439.6	429.0	423.0
62.5°	406.4	394.3	385.2	373.1	371.6
65°	358.0	342.9	332.3	318.7	314.2
67.5°	311.2	297.6	282.5	267.4	258.3
70°	264.4	249.3	235.7	216.0	205.4
72.5°	222.1	208.5	191.8	169.2	161.6
75°	179.8	166.2	148.0	128.4	116.3
77.5°	139.0	128.4	108.8	92.1	90.6
80°	107.3	95.2	72.5	68.0	68.0
82.5°	69.5	61.9	51.4	48.3	48.3
85°	42.3	33.2	30.2	30.2	30.2
87.5°	16.6	15.1	15.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)