

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: P229505

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229505
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-L935-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2618.0 lumens
Efficiency: N/A
Efficacy: 73.5 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

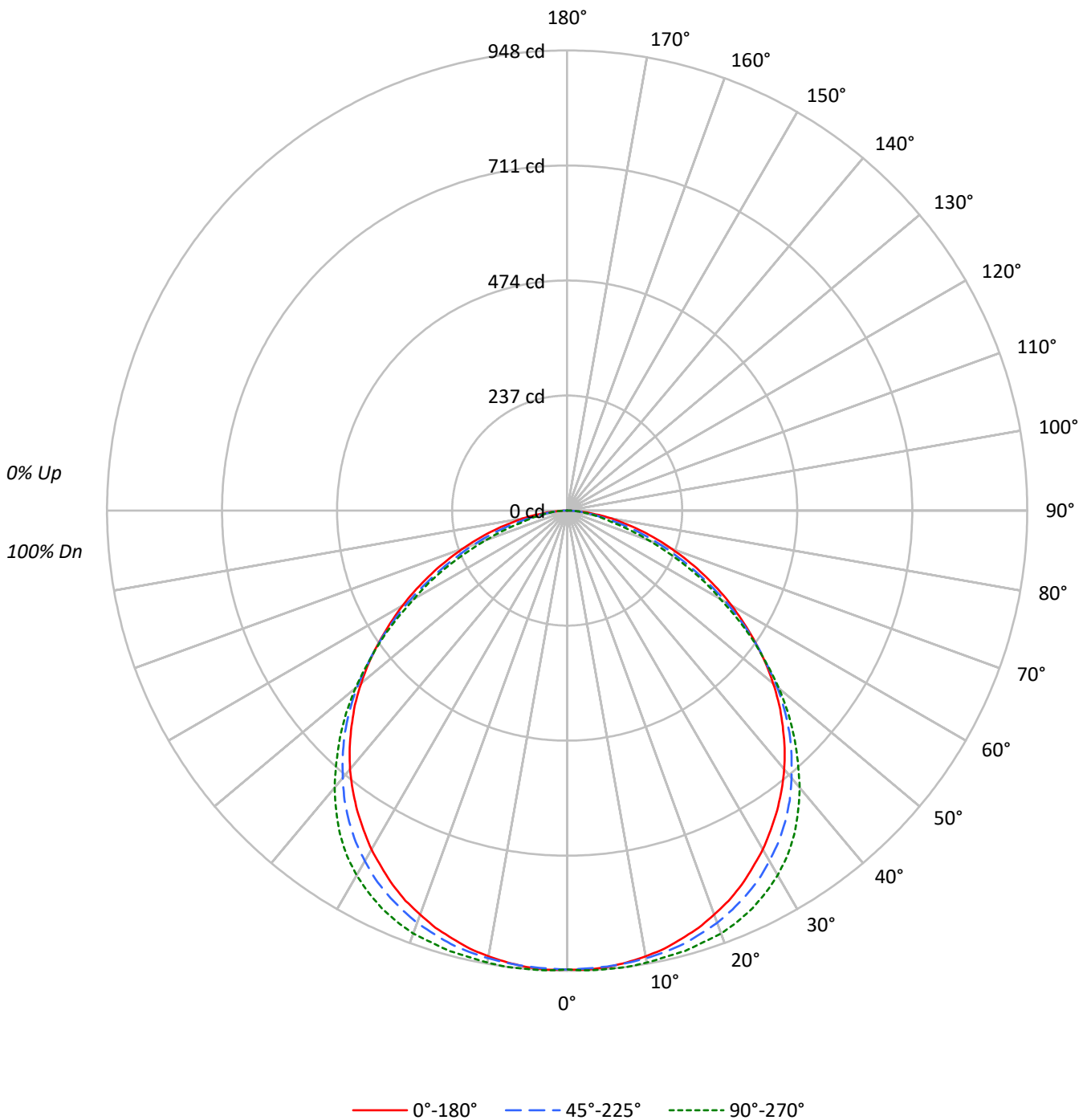
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3186	3186	3186
5°	3194	3189	3207
10°	3191	3204	3235
15°	3185	3225	3276
20°	3176	3241	3325
25°	3162	3249	3360
30°	3137	3243	3375
35°	3103	3220	3354
40°	3061	3164	3278
45°	2993	3086	3154
50°	2904	2959	2986
55°	2781	2773	2758
60°	2638	2550	2454
65°	2457	2281	2157
70°	2242	1999	1743
75°	2015	1659	1303
80°	1791	1211	1135
85°	1407	1005	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.4
10°-20°	261.6	10.0
20°-30°	403.7	15.4
30°-40°	489.6	18.7
40°-50°	497.1	19.0
50°-60°	420.5	16.1
60°-70°	284.5	10.9
70°-80°	137.6	5.3
80°-90°	33.6	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°	755.2	28.8
0°-40°	1244.8	47.5
0°-60°	2162.4	82.6
0°-90°	2618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	944	944	943	947	948	90
15°	913	918	925	935	939	258
25°	850	857	874	896	904	392
35°	754	762	783	808	815	472
45°	628	629	648	661	662	484
55°	473	470	472	472	470	423
65°	308	295	286	274	270	306
75°	155	143	127	110	100	165
85°	36	29	26	26	26	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.5	945.5	945.5	945.5	945.5
2.5°	946.8	946.8	944.2	946.8	948.1
5°	944.2	944.2	942.9	946.8	948.1
7.5°	939.0	940.3	940.3	945.5	948.1
10°	932.5	935.1	936.4	944.2	945.5
12.5°	924.6	927.2	931.2	940.3	941.6
15°	912.9	918.1	924.6	935.1	939.0
17.5°	901.2	906.4	914.2	928.5	932.5
20°	885.6	892.1	903.8	920.7	927.2
22.5°	870.0	875.2	889.5	910.3	916.8
25°	850.5	857.0	873.9	896.0	903.8
27.5°	828.4	837.5	855.7	879.1	886.9
30°	806.3	814.1	833.6	859.6	867.4
32.5°	780.3	788.1	810.2	834.9	844.0
35°	754.3	762.1	782.9	807.6	815.4
37.5°	725.7	730.9	753.0	773.8	781.6
40°	695.8	699.7	719.2	740.0	745.2
42.5°	663.2	665.9	684.1	702.3	703.6
45°	628.1	629.4	647.6	660.6	661.9
47.5°	593.0	591.7	607.3	616.4	617.7
50°	554.0	554.0	564.4	569.6	569.6
52.5°	515.0	512.4	517.6	521.5	517.6
55°	473.4	469.5	472.1	472.1	469.5
57.5°	431.8	424.0	425.3	422.7	416.2
60°	391.4	382.3	378.4	369.3	364.1
62.5°	349.8	339.4	331.6	321.2	319.9
65°	308.2	295.2	286.1	274.4	270.5
67.5°	267.9	256.2	243.2	230.2	222.4
70°	227.6	214.6	202.9	186.0	176.9
72.5°	191.2	179.5	165.2	145.7	139.2
75°	154.8	143.1	127.4	110.5	100.1
77.5°	119.6	110.5	93.6	79.3	78.0
80°	92.3	81.9	62.4	58.5	58.5
82.5°	59.8	53.3	44.2	41.6	41.6
85°	36.4	28.6	26.0	26.0	26.0
87.5°	14.3	13.0	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)