

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: P229569

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229569
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-LD5-31-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: 2307.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

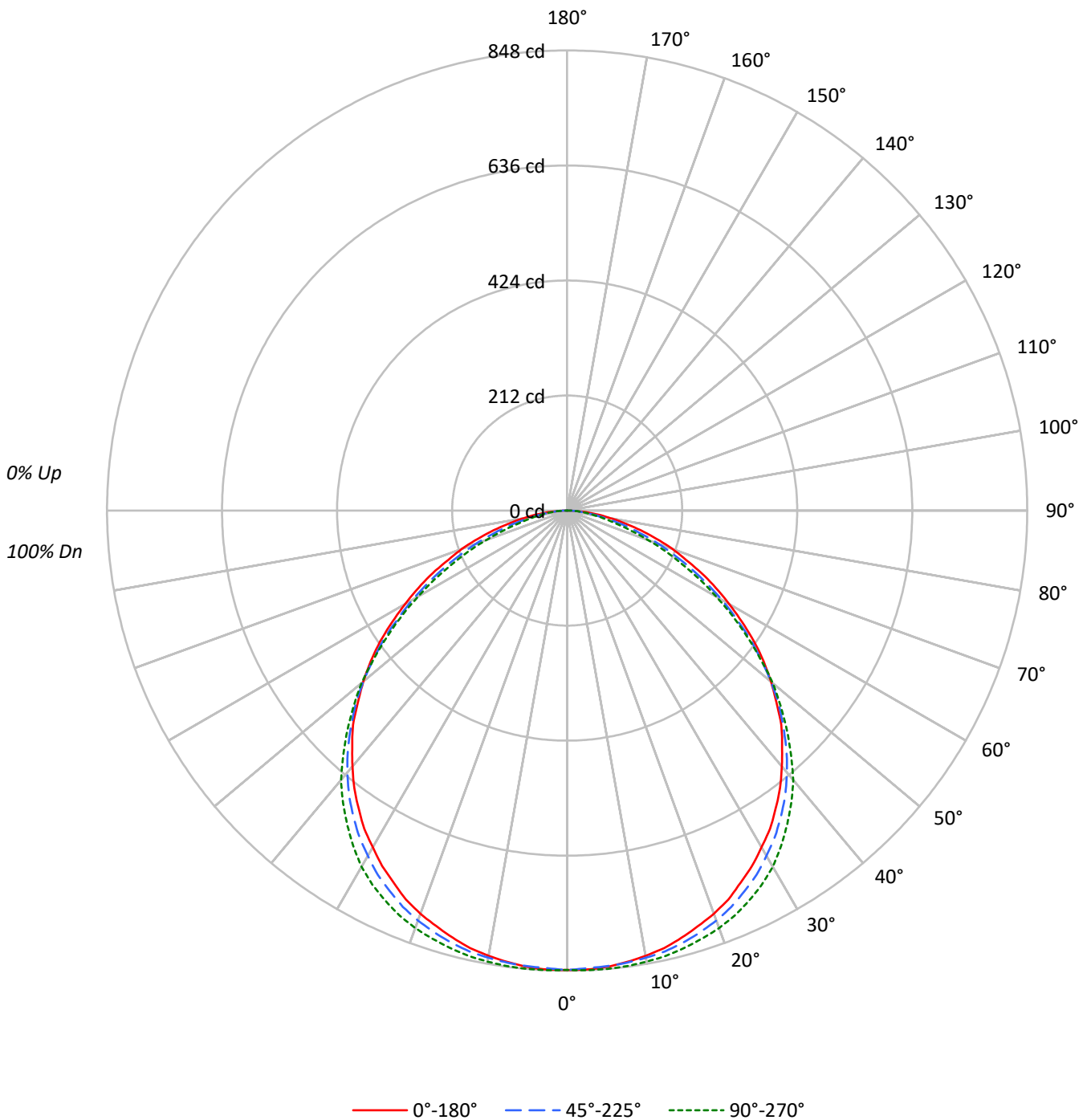
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2853	2853	2853
5°	2855	2851	2868
10°	2851	2863	2888
15°	2843	2877	2911
20°	2835	2883	2935
25°	2813	2876	2948
30°	2787	2859	2948
35°	2757	2827	2907
40°	2707	2771	2852
45°	2660	2684	2730
50°	2570	2570	2595
55°	2472	2415	2379
60°	2328	2221	2140
65°	2182	1998	1862
70°	2026	1762	1558
75°	1821	1488	1236
80°	1581	1157	1038
85°	1365	986	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.5
10°-20°	233.0	10.1
20°-30°	357.2	15.5
30°-40°	430.2	18.6
40°-50°	434.7	18.8
50°-60°	366.8	15.9
60°-70°	249.4	10.8
70°-80°	123.6	5.4
80°-90°	31.6	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°	670.7	29.1
0°-40°	1100.9	47.7
0°-60°	1902.4	82.5
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	844	844	843	847	848	80
15°	815	819	825	832	834	230
25°	756	763	774	789	793	349
35°	670	675	687	703	707	419
45°	558	555	563	573	573	429
55°	421	412	411	408	405	375
65°	274	260	251	238	234	271
75°	140	129	114	100	95	149
85°	35	27	26	26	26	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.6	846.6	846.6	846.6	846.6
2.5°	846.6	846.6	844.1	847.8	847.8
5°	844.1	844.1	842.9	846.6	847.8
7.5°	839.3	840.5	840.5	845.3	846.6
10°	833.2	834.4	836.8	842.9	844.1
12.5°	825.9	828.3	832.0	838.0	840.5
15°	814.9	818.6	824.7	832.0	834.4
17.5°	802.8	807.6	814.9	824.7	827.1
20°	790.6	794.3	804.0	814.9	818.6
22.5°	776.0	780.9	790.6	802.8	807.6
25°	756.5	762.6	773.6	789.4	793.0
27.5°	738.3	744.4	756.5	772.4	777.2
30°	716.4	723.7	734.7	751.7	757.8
32.5°	695.7	699.4	712.8	728.6	733.4
35°	670.2	675.1	687.2	703.0	706.7
37.5°	644.6	648.3	660.5	675.1	678.7
40°	615.5	619.1	630.0	644.6	648.3
42.5°	586.3	588.7	598.4	610.6	610.6
45°	558.3	554.6	563.2	572.9	572.9
47.5°	523.0	523.0	529.1	534.0	534.0
50°	490.2	487.7	490.2	492.6	495.0
52.5°	456.1	451.3	450.0	450.0	448.8
55°	420.8	412.3	411.1	407.5	405.0
57.5°	381.9	375.8	368.5	363.7	361.2
60°	345.4	334.5	329.6	321.1	317.5
62.5°	308.9	299.2	288.3	279.8	276.1
65°	273.7	260.3	250.6	238.4	233.5
67.5°	237.2	225.0	212.9	201.9	197.0
70°	205.6	191.0	178.8	163.0	158.1
72.5°	172.7	159.3	144.7	130.1	124.1
75°	139.9	128.9	114.3	99.7	94.9
77.5°	109.5	99.7	85.1	73.0	71.8
80°	81.5	73.0	59.6	54.7	53.5
82.5°	58.4	48.7	40.1	38.9	38.9
85°	35.3	26.8	25.5	25.5	25.5
87.5°	13.4	12.2	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)