

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: P229560

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229560
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-L930-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459.0 lumens
Efficiency: N/A
Efficacy: 69.1 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

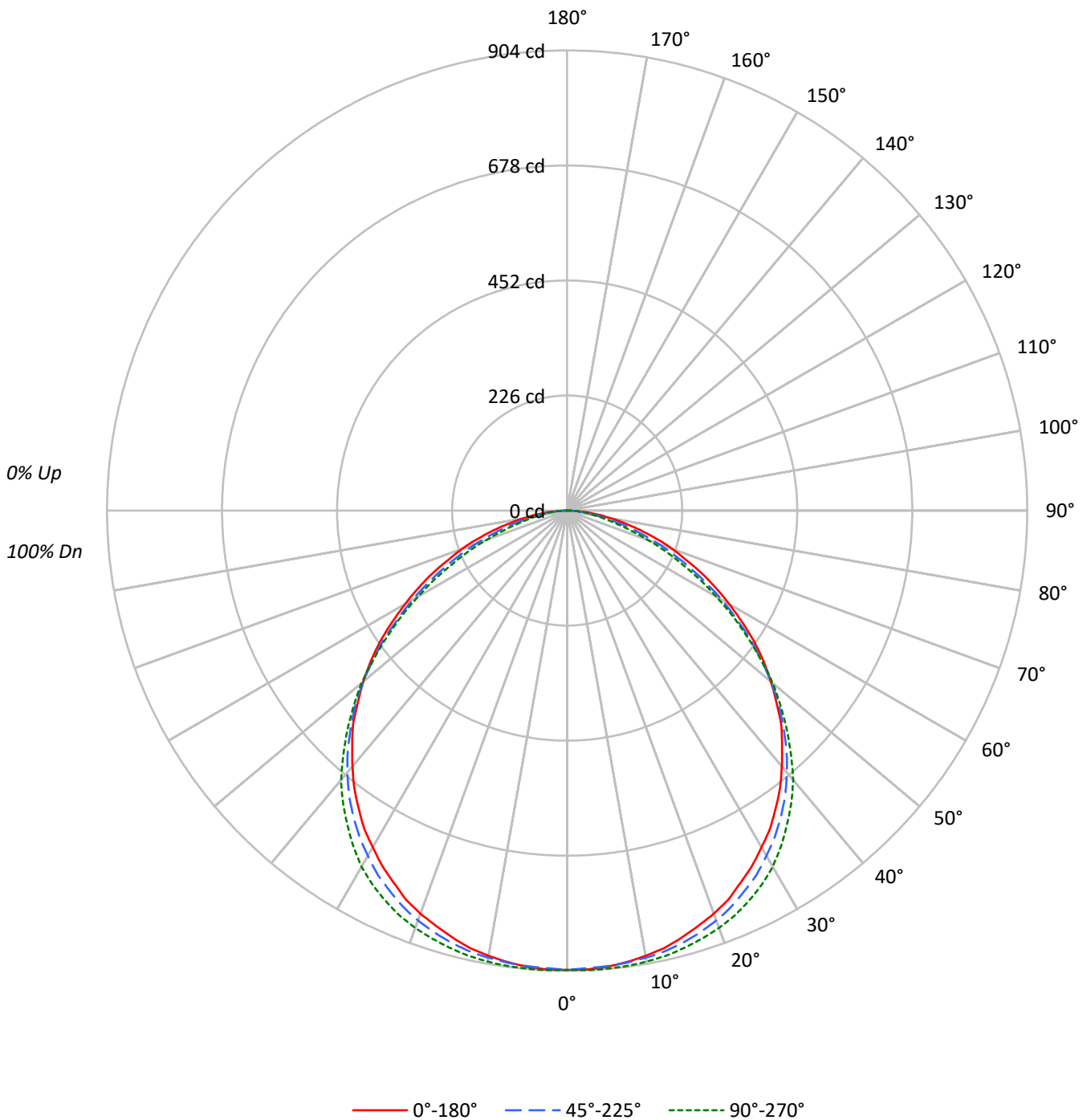
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3040	3040	3040
5°	3043	3039	3056
10°	3039	3052	3078
15°	3030	3066	3103
20°	3022	3073	3129
25°	2998	3065	3143
30°	2971	3047	3143
35°	2938	3013	3098
40°	2886	2954	3039
45°	2836	2861	2910
50°	2739	2739	2766
55°	2635	2574	2536
60°	2481	2367	2281
65°	2326	2130	1985
70°	2159	1878	1660
75°	1941	1587	1316
80°	1686	1232	1106
85°	1454	1052	1052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.5
10°-20°	248.3	10.1
20°-30°	380.8	15.5
30°-40°	458.6	18.6
40°-50°	463.3	18.8
50°-60°	391.0	15.9
60°-70°	265.8	10.8
70°-80°	131.7	5.4
80°-90°	33.7	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°	714.8	29.1
0°-40°	1173.4	47.7
0°-60°	2027.8	82.5
0°-90°	2459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	900	900	898	902	904	85
15°	869	872	879	887	889	245
25°	806	813	824	841	845	372
35°	714	720	732	749	753	447
45°	595	591	600	611	611	457
55°	449	440	438	434	432	400
65°	292	277	267	254	249	289
75°	149	137	122	106	101	159
85°	38	28	27	27	27	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	902.3	902.3	899.7	903.6	903.6
5°	899.7	899.7	898.4	902.3	903.6
7.5°	894.6	895.8	895.8	901.0	902.3
10°	888.1	889.4	892.0	898.4	899.7
12.5°	880.3	882.9	886.8	893.3	895.8
15°	868.6	872.5	879.0	886.8	889.4
17.5°	855.7	860.8	868.6	879.0	881.6
20°	842.7	846.6	857.0	868.6	872.5
22.5°	827.1	832.3	842.7	855.7	860.8
25°	806.4	812.9	824.5	841.4	845.3
27.5°	786.9	793.4	806.4	823.2	828.4
30°	763.6	771.4	783.1	801.2	807.7
32.5°	741.6	745.5	759.7	776.6	781.8
35°	714.3	719.5	732.5	749.3	753.2
37.5°	687.1	691.0	704.0	719.5	723.4
40°	656.0	659.9	671.6	687.1	691.0
42.5°	624.9	627.5	637.9	650.8	650.8
45°	595.1	591.2	600.3	610.6	610.6
47.5°	557.5	557.5	564.0	569.1	569.1
50°	522.5	519.9	522.5	525.1	527.7
52.5°	486.2	481.0	479.7	479.7	478.4
55°	448.6	439.5	438.2	434.3	431.7
57.5°	407.1	400.6	392.8	387.6	385.0
60°	368.2	356.5	351.3	342.3	338.4
62.5°	329.3	318.9	307.3	298.2	294.3
65°	291.7	277.4	267.1	254.1	248.9
67.5°	252.8	239.8	226.9	215.2	210.0
70°	219.1	203.5	190.6	173.7	168.5
72.5°	184.1	169.8	154.3	138.7	132.2
75°	149.1	137.4	121.9	106.3	101.1
77.5°	116.7	106.3	90.8	77.8	76.5
80°	86.9	77.8	63.5	58.3	57.0
82.5°	62.2	51.9	42.8	41.5	41.5
85°	37.6	28.5	27.2	27.2	27.2
87.5°	14.3	13.0	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)