

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: P229493

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229493
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-LD5-26-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: 2245.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

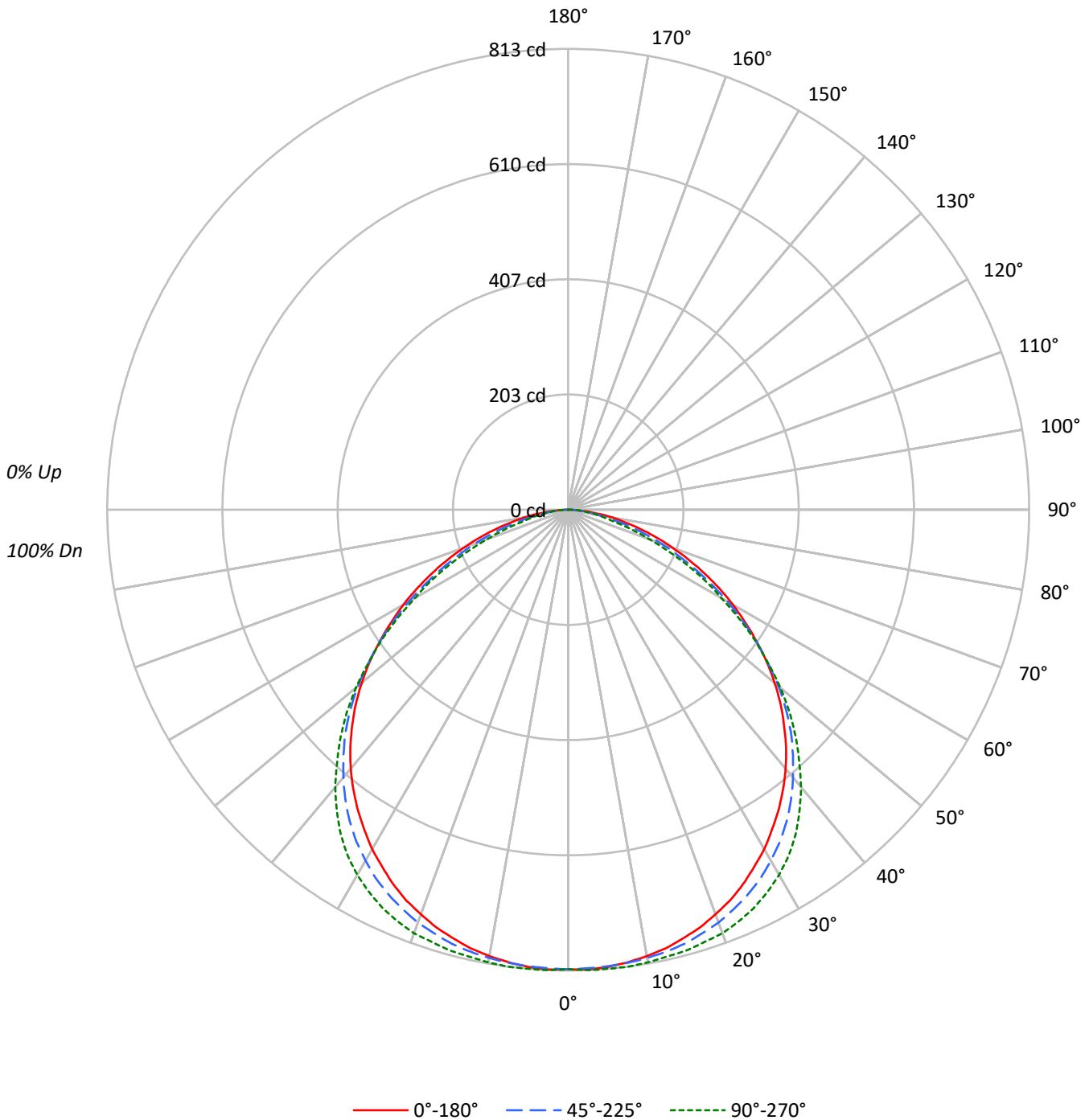
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2732	2732	2732
5°	2738	2735	2750
10°	2736	2747	2774
15°	2731	2766	2809
20°	2723	2779	2851
25°	2711	2786	2882
30°	2690	2781	2894
35°	2661	2762	2876
40°	2624	2713	2811
45°	2567	2647	2705
50°	2491	2537	2561
55°	2385	2378	2365
60°	2262	2187	2105
65°	2107	1956	1850
70°	1923	1714	1495
75°	1728	1423	1118
80°	1537	1038	974
85°	1206	862	862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.4
10°-20°	224.3	10.0
20°-30°	346.2	15.4
30°-40°	419.8	18.7
40°-50°	426.3	19.0
50°-60°	360.6	16.1
60°-70°	244.0	10.9
70°-80°	118.0	5.3
80°-90°	28.8	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°	647.6	28.8
0°-40°	1067.5	47.5
0°-60°	1854.3	82.6
0°-90°	2245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	810	810	808	812	813	77
15°	783	787	793	802	805	221
25°	729	735	749	768	775	336
35°	647	654	671	692	699	404
45°	539	540	555	566	568	415
55°	406	403	405	405	403	363
65°	264	253	245	235	232	262
75°	133	123	109	95	86	141
85°	31	24	22	22	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.8	810.8	810.8	810.8	810.8
2.5°	811.9	811.9	809.6	811.9	813.0
5°	809.6	809.6	808.5	811.9	813.0
7.5°	805.2	806.3	806.3	810.8	813.0
10°	799.6	801.8	802.9	809.6	810.8
12.5°	792.9	795.1	798.5	806.3	807.4
15°	782.9	787.3	792.9	801.8	805.2
17.5°	772.8	777.3	784.0	796.3	799.6
20°	759.5	765.0	775.1	789.6	795.1
22.5°	746.1	750.5	762.8	780.6	786.2
25°	729.3	734.9	749.4	768.4	775.1
27.5°	710.4	718.2	733.8	753.9	760.6
30°	691.4	698.1	714.8	737.1	743.8
32.5°	669.1	675.8	694.8	716.0	723.8
35°	646.8	653.5	671.4	692.5	699.2
37.5°	622.3	626.7	645.7	663.5	670.2
40°	596.6	600.0	616.7	634.5	639.0
42.5°	568.8	571.0	586.6	602.2	603.3
45°	538.6	539.8	555.4	566.5	567.6
47.5°	508.5	507.4	520.8	528.6	529.7
50°	475.1	475.1	484.0	488.5	488.5
52.5°	441.6	439.4	443.9	447.2	443.9
55°	405.9	402.6	404.8	404.8	402.6
57.5°	370.2	363.6	364.7	362.4	356.9
60°	335.7	327.9	324.5	316.7	312.3
62.5°	300.0	291.1	284.4	275.5	274.3
65°	264.3	253.2	245.3	235.3	232.0
67.5°	229.7	219.7	208.5	197.4	190.7
70°	195.2	184.0	174.0	159.5	151.7
72.5°	163.9	153.9	141.6	124.9	119.3
75°	132.7	122.7	109.3	94.8	85.9
77.5°	102.6	94.8	80.3	68.0	66.9
80°	79.2	70.3	53.5	50.2	50.2
82.5°	51.3	45.7	37.9	35.7	35.7
85°	31.2	24.5	22.3	22.3	22.3
87.5°	12.3	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)