

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: P229492

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229492
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-LD5-23-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: 2013.1 lumens
Efficiency: N/A
Efficacy: 91.9 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

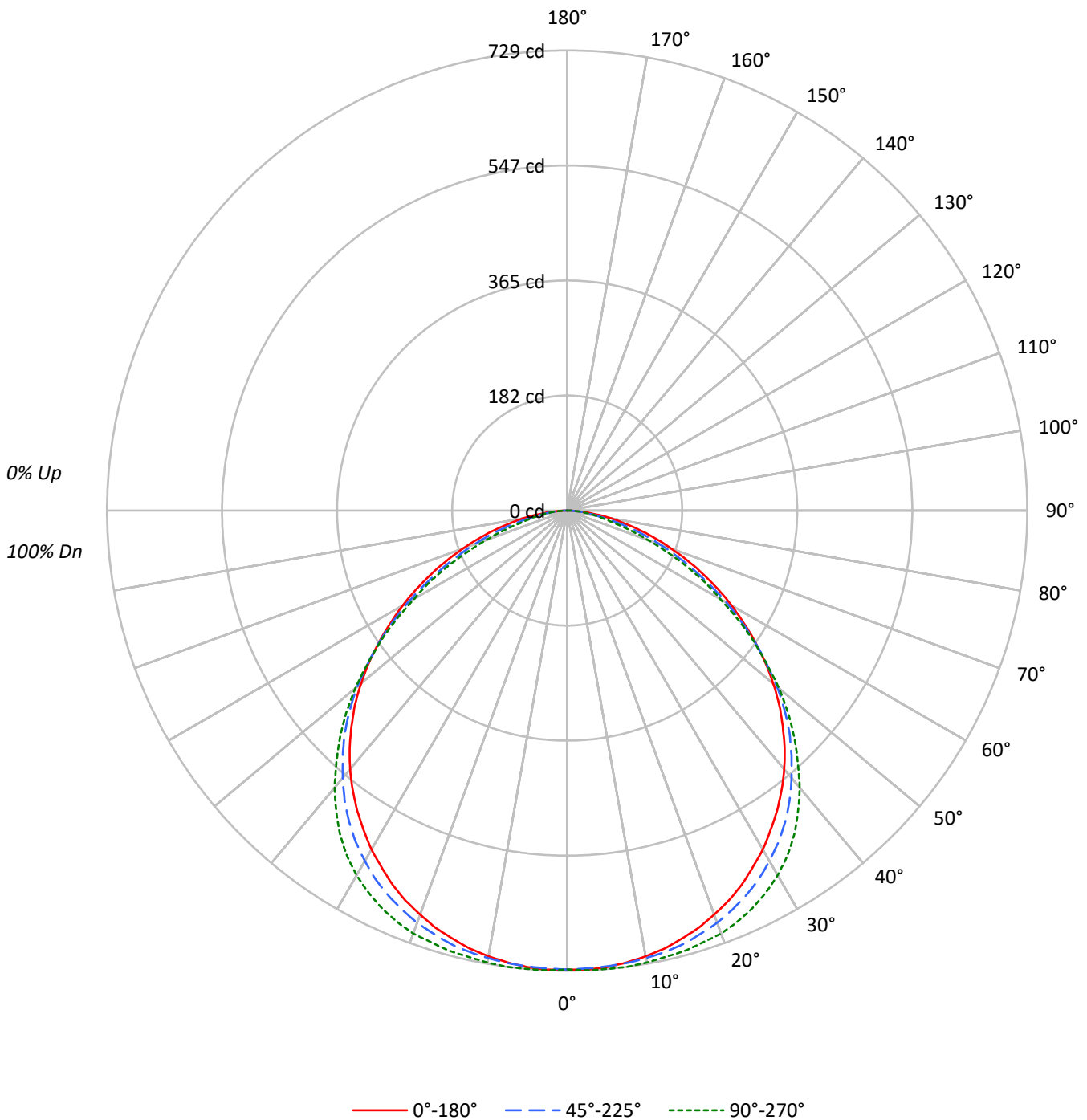
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2450	2450	2450
5°	2456	2452	2466
10°	2453	2464	2487
15°	2449	2480	2519
20°	2442	2492	2557
25°	2432	2498	2584
30°	2412	2494	2595
35°	2386	2476	2579
40°	2353	2432	2520
45°	2302	2373	2426
50°	2233	2275	2296
55°	2138	2133	2121
60°	2028	1961	1887
65°	1890	1754	1658
70°	1724	1537	1340
75°	1549	1276	1002
80°	1378	931	873
85°	1083	773	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.4
10°-20°	201.1	10.0
20°-30°	310.4	15.4
30°-40°	376.5	18.7
40°-50°	382.2	19.0
50°-60°	323.3	16.1
60°-70°	218.8	10.9
70°-80°	105.8	5.3
80°-90°	25.8	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°	580.7	28.8
0°-40°	957.2	47.5
0°-60°	1662.7	82.6
0°-90°	2013.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	726	726	725	728	729	69
15°	702	706	711	719	722	198
25°	654	659	672	689	695	301
35°	580	586	602	621	627	363
45°	483	484	498	508	509	372
55°	364	361	363	363	361	325
65°	237	227	220	211	208	235
75°	119	110	98	85	77	127
85°	28	22	20	20	20	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727	727	727	727	727
2.5°	728	728	726	728	729
5°	726	726	725	728	729
7.5°	722	723	723	727	729
10°	717	719	720	726	727
12.5°	711	713	716	723	724
15°	702	706	711	719	722
17.5°	693	697	703	714	717
20°	681	686	695	708	713
22.5°	669	673	684	700	705
25°	654	659	672	689	695
27.5°	637	644	658	676	682
30°	620	626	641	661	667
32.5°	600	606	623	642	649
35°	580	586	602	621	627
37.5°	558	562	579	595	601
40°	535	538	553	569	573
42.5°	510	512	526	540	541
45°	483	484	498	508	509
47.5°	456	455	467	474	475
50°	426	426	434	438	438
52.5°	396	394	398	401	398
55°	364	361	363	363	361
57.5°	332	326	327	325	320
60°	301	294	291	284	280
62.5°	269	261	255	247	246
65°	237	227	220	211	208
67.5°	206	197	187	177	171
70°	175	165	156	143	136
72.5°	147	138	127	112	107
75°	119	110	98	85	77
77.5°	92	85	72	61	60
80°	71	63	48	45	45
82.5°	46	41	34	32	32
85°	28	22	20	20	20
87.5°	11	10	10	10	10
90°	0	0	0	0	0

(END OF REPORT)