

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: P229462

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-UNV-L840-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

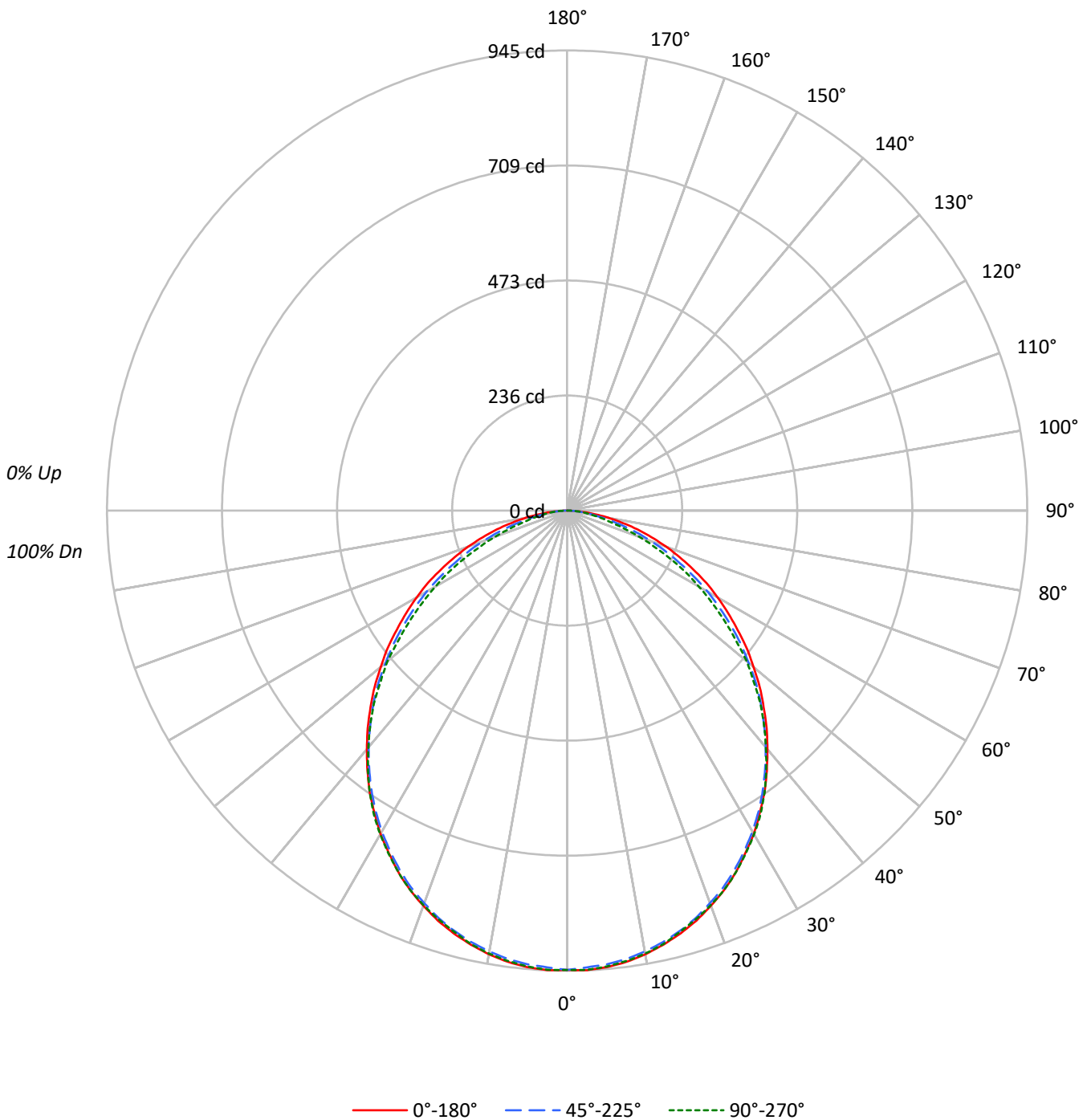
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		45	39	34		44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3179	3179	3179
5°	3183	3164	3177
10°	3166	3146	3160
15°	3136	3118	3124
20°	3097	3076	3092
25°	3048	3026	3048
30°	2984	2961	2988
35°	2907	2883	2907
40°	2814	2791	2793
45°	2720	2684	2676
50°	2620	2552	2525
55°	2511	2408	2319
60°	2405	2248	2110
65°	2273	2032	1859
70°	2120	1804	1563
75°	1944	1510	1207
80°	1675	1131	1040
85°	1353	947	970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.8
10°-20°	252.9	10.7
20°-30°	376.4	15.9
30°-40°	440.0	18.5
40°-50°	434.8	18.3
50°-60°	367.1	15.5
60°-70°	254.3	10.7
70°-80°	126.9	5.3
80°-90°	31.6	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°	718.4	30.3
0°-40°	1158.3	48.8
0°-60°	1960.2	82.6
0°-90°	2373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	941	939	935	940	939	89
15°	899	898	894	898	896	253
25°	820	818	814	819	820	377
35°	707	703	701	706	707	441
45°	571	564	563	562	562	441
55°	427	420	410	401	395	383
65°	285	272	255	241	233	283
75°	149	136	116	100	93	158
85°	35	27	24	24	25	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.4	943.4	943.4	943.4	943.4
2.5°	944.6	942.9	938.8	943.4	944.0
5°	941.1	939.4	935.3	939.9	939.4
7.5°	934.7	932.4	928.9	933.0	933.0
10°	925.4	923.6	919.5	924.2	923.6
12.5°	913.1	912.0	907.9	912.5	912.0
15°	899.1	898.0	893.9	898.0	895.6
17.5°	882.8	882.2	877.6	880.5	879.9
20°	863.6	862.4	857.7	863.6	862.4
22.5°	843.2	840.8	837.9	842.6	843.2
25°	819.8	817.5	814.0	819.2	819.8
27.5°	793.0	791.3	787.8	795.3	794.2
30°	766.8	765.0	760.9	767.4	767.9
32.5°	736.4	734.7	731.8	738.2	739.4
35°	706.7	703.2	700.9	706.1	706.7
37.5°	673.5	670.0	667.6	672.9	671.7
40°	639.7	635.6	634.4	638.5	635.0
42.5°	606.4	601.2	598.8	601.2	598.8
45°	570.8	564.4	563.3	562.1	561.5
47.5°	536.4	529.4	526.5	522.5	519.5
50°	499.7	492.1	486.9	482.8	481.6
52.5°	465.3	456.6	449.0	445.5	436.2
55°	427.4	419.8	409.9	401.2	394.8
57.5°	391.8	381.9	370.3	360.9	352.8
60°	356.9	344.0	333.5	319.0	313.1
62.5°	322.5	307.9	293.3	277.6	274.6
65°	285.1	271.7	254.8	241.4	233.2
67.5°	249.6	235.6	219.2	200.6	193.0
70°	215.2	200.0	183.1	165.0	158.6
72.5°	181.9	166.8	149.3	130.0	122.4
75°	149.3	135.9	116.0	100.3	92.7
77.5°	116.0	105.0	85.7	72.9	71.7
80°	86.3	76.4	58.3	55.4	53.6
82.5°	59.5	50.1	41.4	39.7	38.5
85°	35.0	26.8	24.5	24.5	25.1
87.5°	13.4	11.7	11.7	11.7	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)