

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: P229522

Luminaire Tested: **14RLN-LD5-23-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
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-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

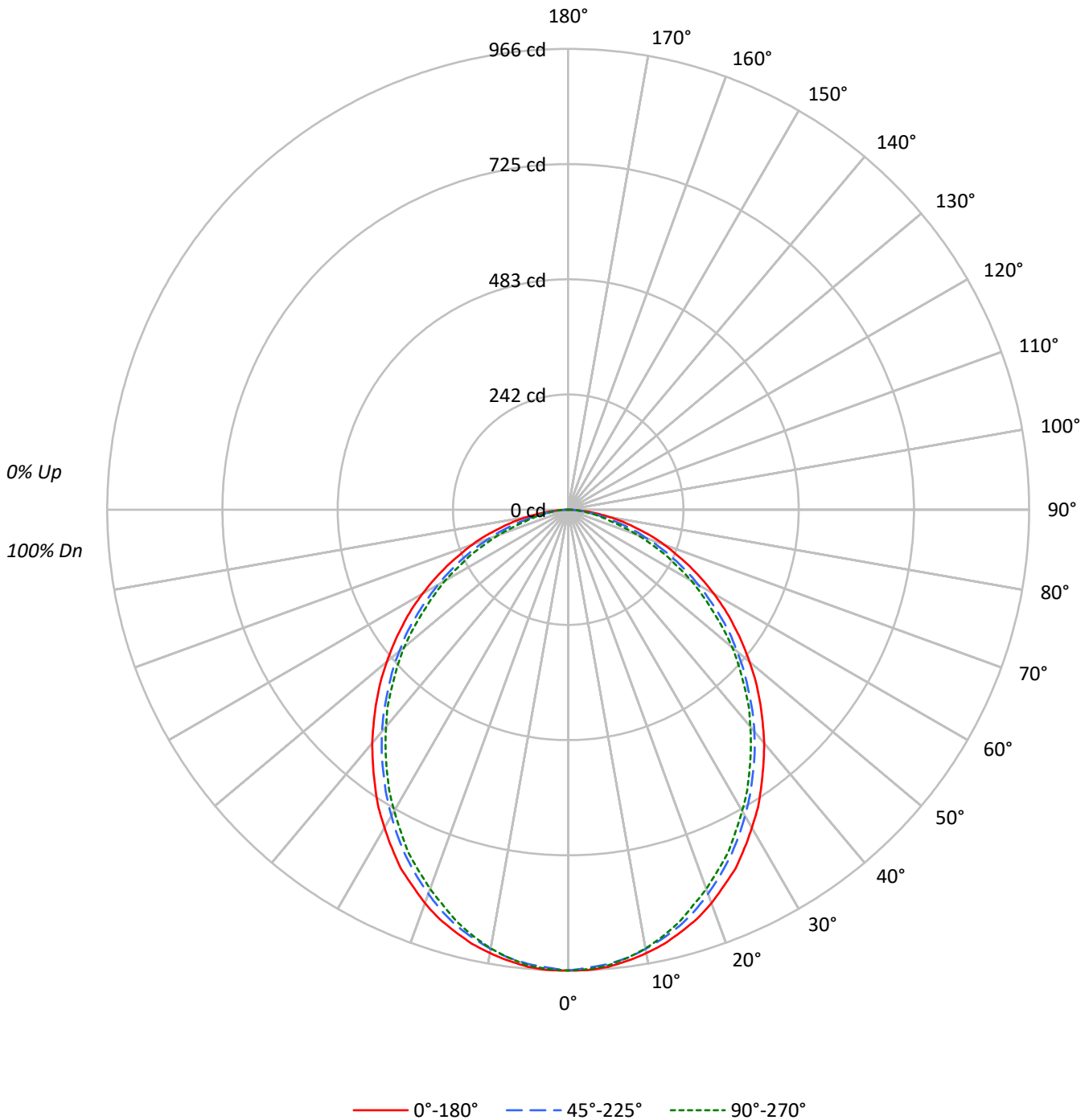
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3255	3255	3255
5°	3254	3233	3243
10°	3230	3199	3195
15°	3195	3150	3125
20°	3148	3073	3033
25°	3086	2985	2948
30°	2996	2883	2836
35°	2904	2776	2727
40°	2810	2670	2612
45°	2706	2544	2483
50°	2600	2422	2354
55°	2491	2285	2168
60°	2372	2123	2008
65°	2240	1945	1802
70°	2108	1724	1527
75°	1901	1471	1185
80°	1688	1164	1048
85°	1392	928	967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.9
10°-20°	254.7	11.0
20°-30°	371.3	16.1
30°-40°	425.7	18.4
40°-50°	416.2	18.0
50°-60°	351.1	15.2
60°-70°	245.4	10.6
70°-80°	125.2	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°	716.9	31.0
0°-40°	1142.6	49.4
0°-60°	1909.9	82.6
0°-90°	2312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	962	960	956	959	959	91
15°	916	913	903	900	896	258
25°	830	820	803	795	793	381
35°	706	696	675	668	663	442
45°	568	553	534	527	521	438
55°	424	408	389	378	369	379
65°	281	264	244	230	226	278
75°	146	134	113	99	91	157
85°	36	27	24	25	25	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.9	965.9	965.9	965.9	965.9
2.5°	965.9	963.9	960.9	964.9	963.9
5°	961.9	959.9	955.9	958.9	958.9
7.5°	953.9	951.9	947.9	949.9	947.9
10°	943.9	941.9	934.9	935.9	933.9
12.5°	931.9	927.9	919.9	918.9	915.9
15°	915.9	912.9	902.9	899.9	895.9
17.5°	898.9	892.9	881.9	875.9	869.9
20°	877.9	869.9	856.9	849.9	845.9
22.5°	852.9	846.9	830.9	822.9	818.9
25°	829.9	819.9	802.9	794.9	792.9
27.5°	799.9	791.9	772.9	765.9	759.9
30°	769.9	760.9	740.9	733.9	728.9
32.5°	739.9	729.9	708.9	700.9	697.9
35°	705.9	695.9	674.9	667.9	662.9
37.5°	671.9	659.9	641.9	633.9	628.9
40°	638.9	624.9	606.9	597.9	593.9
42.5°	602.9	587.9	570.9	561.9	559.9
45°	567.9	552.9	533.9	527.0	521.0
47.5°	532.9	516.0	499.0	489.0	485.0
50°	496.0	480.0	462.0	452.0	449.0
52.5°	460.0	444.0	427.0	416.0	409.0
55°	424.0	408.0	389.0	378.0	369.0
57.5°	389.0	370.0	351.0	338.0	333.0
60°	352.0	335.0	315.0	302.0	298.0
62.5°	316.0	301.0	280.0	265.0	258.0
65°	281.0	264.0	244.0	230.0	226.0
67.5°	245.0	230.0	210.0	194.0	187.0
70°	214.0	195.0	175.0	161.0	155.0
72.5°	181.0	164.0	145.0	129.0	120.0
75°	146.0	134.0	113.0	99.0	91.0
77.5°	118.0	104.0	85.0	74.0	72.0
80°	87.0	76.0	60.0	55.0	54.0
82.5°	61.0	50.0	41.0	39.0	38.0
85°	36.0	27.0	24.0	25.0	25.0
87.5°	15.0	11.0	11.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)