

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: P284457

Luminaire Tested: **2SNLED-LD5-41HL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-41HL-SLW-UNV-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

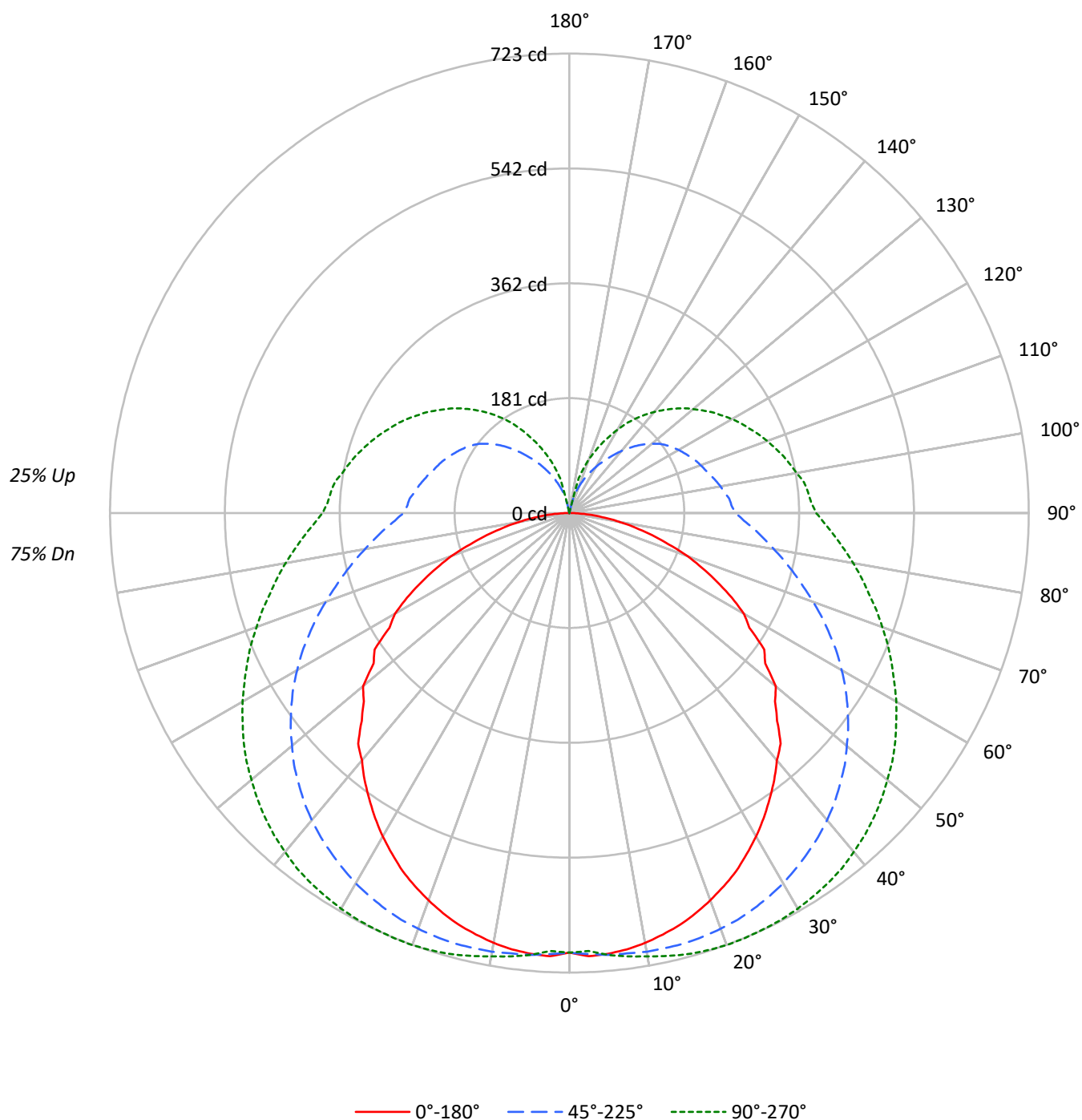
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	113	113	113	113		107	107	107	107		97	97	97		88	88	88		79	79	79
1	100	94	89	84		95	89	84	80		80	76	73		72	69	66		64	62	60
2	90	80	72	66		85	76	69	63		68	63	58		61	57	53		55	51	48
3	81	69	60	53		76	66	58	51		59	53	47		53	48	43		47	43	39
4	74	61	51	44		69	58	49	43		52	45	39		47	41	36		42	37	33
5	67	54	44	37		63	51	43	36		46	39	33		42	35	31		37	32	28
6	62	48	39	32		58	46	37	31		41	34	29		37	31	27		34	28	24
7	57	43	34	28		54	41	33	27		37	30	25		34	28	23		30	25	21
8	53	39	31	25		50	37	29	24		34	27	22		31	25	21		28	23	19
9	49	36	27	22		47	34	26	21		31	24	20		28	23	18		26	21	17
10	46	33	25	20		44	31	24	19		29	22	18		26	21	16		24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11178	11178	11178
5°	11232	11024	10963
10°	11148	10907	10903
15°	11041	10829	10925
20°	10904	10760	10946
25°	10768	10702	10963
30°	10584	10650	11022
35°	10382	10592	11097
40°	10184	10562	11169
45°	9945	10515	11259
50°	9920	10467	11347
55°	9680	10439	11481
60°	9249	10413	11637
65°	8643	10388	11854
70°	7965	10418	12187
75°	6826	10600	12682
80°	5532	11026	13496
85°	3743	11925	14693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.7
10°-20°	197.0	4.9
20°-30°	313.1	7.9
30°-40°	401.8	10.1
40°-50°	453.7	11.4
50°-60°	463.0	11.6
60°-70°	428.9	10.8
70°-80°	363.2	9.1
80°-90°	289.9	7.3
90°-100°	246.2	6.2
100°-110°	219.3	5.5
110°-120°	186.8	4.7
120°-130°	148.4	3.7
130°-140°	105.2	2.6
140°-150°	62.8	1.6
150°-160°	29.3	0.7
160°-170°	7.0	0.2
170°-180°	0.0	0.0
0°-30°	576.5	14.5
0°-40°	978.3	24.6
0°-60°	1895.1	47.6
0°-90°	2977.1	74.8
90°-120°	652.2	16.4
90°-150°	968.7	24.3
90°-180°	1005.0	25.2
0°-180°	3982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	696	691	698	698	698	66
15°	671	676	701	714	719	189
25°	621	642	687	711	722	286
35°	549	590	653	693	710	344
45°	462	525	602	655	678	359
55°	374	437	534	600	626	329
65°	256	342	452	530	560	254
75°	135	239	366	456	488	143
85°	35	154	292	386	419	38
90°	2	126	261	356	388	3
95°	0	118	253	345	377	0
105°	0	109	230	317	348	0
115°	0	101	210	285	313	0
125°	0	87	186	252	276	0
135°	0	65	150	212	232	0
145°	0	42	105	159	182	0
155°	1	26	65	97	121	0
165°	1	14	29	40	57	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.6	691.6	691.6	691.6	691.6
2.5°	697.9	690.6	694.4	693.4	689.6
5°	696.1	690.6	697.9	697.9	697.9
7.5°	692.4	688.6	698.9	702.7	703.7
10°	686.8	686.8	700.9	706.5	708.3
12.5°	679.2	682.0	700.9	709.3	713.8
15°	670.9	676.4	700.9	713.8	718.6
17.5°	660.5	669.9	698.9	714.8	721.4
20°	648.4	662.6	696.1	714.8	723.4
22.5°	635.3	653.2	692.4	713.1	723.4
25°	621.4	641.9	686.8	711.0	722.4
27.5°	604.5	630.7	680.2	708.3	721.4
30°	587.6	617.6	672.7	704.5	718.6
32.5°	568.9	603.5	663.3	698.9	714.8
35°	549.2	589.6	653.2	693.4	710.3
37.5°	529.5	572.7	642.9	685.8	704.5
40°	508.0	555.8	630.7	676.4	696.1
42.5°	492.1	538.1	617.6	667.1	687.8
45°	462.3	524.9	602.5	655.0	677.5
47.5°	438.8	499.7	587.6	642.9	666.1
50°	423.9	479.0	569.9	628.7	653.2
52.5°	388.3	465.1	553.0	614.8	640.8
55°	374.2	437.1	534.3	599.7	625.9
57.5°	335.8	417.4	515.6	583.0	610.0
60°	317.1	390.1	494.9	566.1	594.1
62.5°	288.1	366.9	474.4	547.4	576.5
65°	256.3	341.6	452.0	529.5	559.5
67.5°	226.5	316.4	430.5	510.8	542.6
70°	197.5	290.1	408.0	492.1	523.9
72.5°	163.6	263.9	386.3	474.4	506.3
75°	134.8	238.6	365.9	455.8	487.6
77.5°	106.6	214.4	346.2	438.8	470.7
80°	80.5	190.9	326.5	421.2	453.7
82.5°	56.1	171.2	308.8	404.3	436.1
85°	34.6	153.5	291.9	386.3	419.2
87.5°	15.9	137.6	275.0	369.7	403.2
90°	1.8	125.5	261.1	355.5	388.3
92.5°	1.0	121.7	255.5	349.0	380.8
95°	0.0	117.9	252.8	345.2	377.0
97.5°	0.0	114.1	246.2	339.6	372.4
100°	0.0	112.4	241.4	331.3	363.1
102.5°	0.0	109.6	235.8	323.7	355.5
105°	0.0	108.6	230.3	317.1	348.2
107.5°	0.0	106.6	224.5	308.8	339.6
110°	0.0	104.8	219.9	301.2	331.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	103.0	215.1	293.9	322.7
115°	0.0	101.0	209.6	285.3	313.4
117.5°	0.0	98.2	204.0	277.0	305.0
120°	0.0	94.4	198.5	269.4	295.7
122.5°	0.0	90.6	192.7	260.1	285.3
125°	0.0	87.1	186.1	251.7	276.0
127.5°	0.0	81.3	178.8	242.4	264.9
130°	0.0	75.8	169.4	233.1	254.5
132.5°	1.0	70.2	160.1	222.7	244.2
135°	0.0	64.6	149.7	212.4	232.0
137.5°	0.0	59.8	138.4	201.2	219.9
140°	0.0	54.3	127.3	188.1	207.8
142.5°	0.0	47.7	116.2	174.0	194.7
145°	0.0	42.2	104.8	159.1	181.5
147.5°	1.0	37.4	94.4	143.2	167.4
150°	1.0	33.6	84.3	127.3	151.5
152.5°	1.0	30.0	74.0	112.4	135.6
155°	1.0	26.3	64.6	97.2	120.7
157.5°	1.0	22.5	54.3	82.3	104.8
160°	1.0	19.7	44.9	69.2	89.9
162.5°	1.0	16.9	36.6	54.3	74.0
165°	1.0	14.1	29.0	40.1	57.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)