

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: P284583

Luminaire Tested: **4SNLED-LD5-41SL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284583
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: 4SNLED-LD5-41SL-SLW-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4204.0 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: 4' x H: 0.12')
CIE Type: Semi-Direct

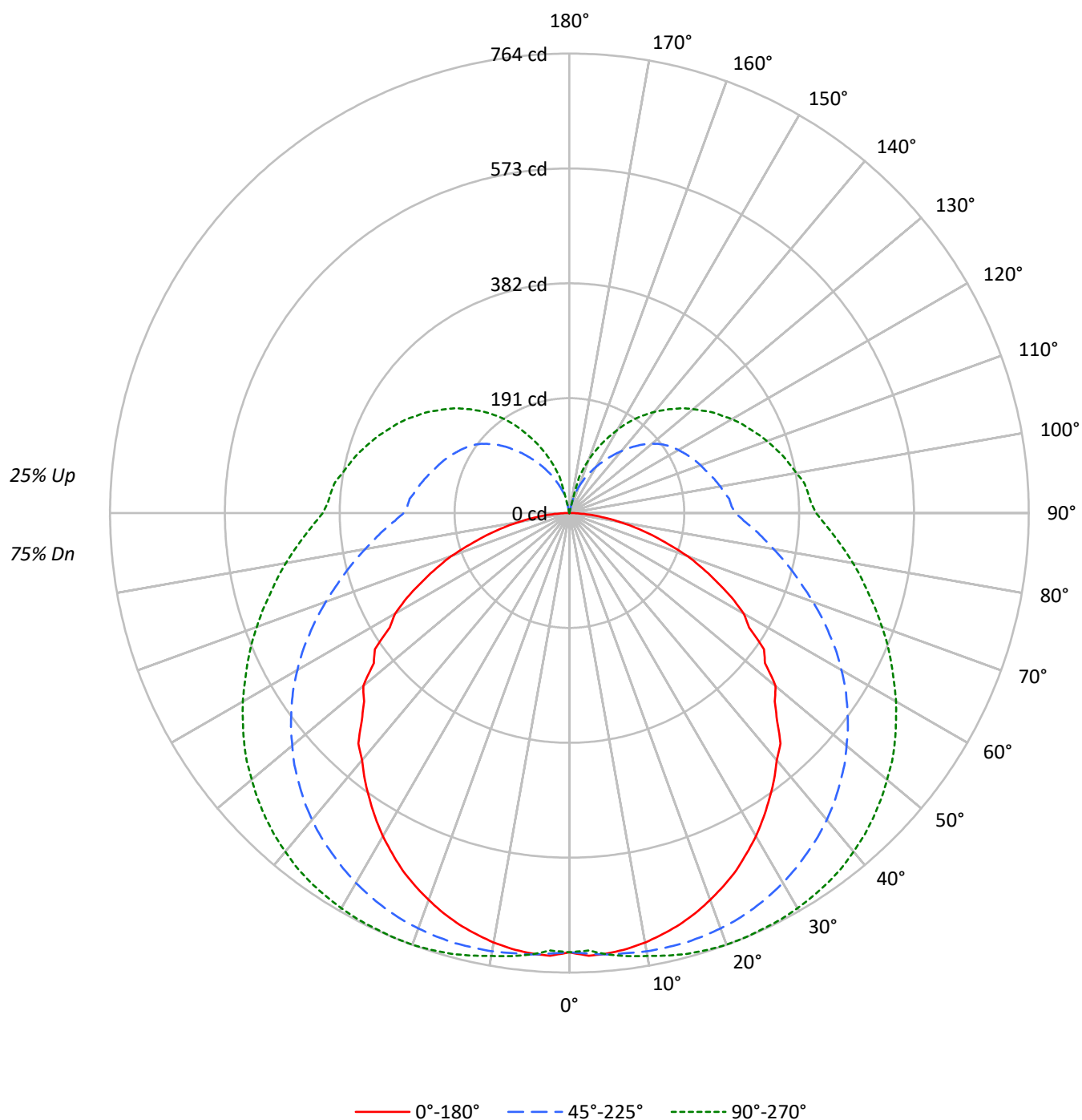
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5901	5901	5901
5°	5946	5830	5787
10°	5917	5779	5755
15°	5876	5748	5767
20°	5821	5722	5778
25°	5765	5701	5788
30°	5686	5684	5819
35°	5597	5663	5858
40°	5514	5659	5896
45°	5409	5646	5943
50°	5425	5634	5990
55°	5329	5634	6061
60°	5133	5637	6144
65°	4849	5644	6258
70°	4537	5686	6433
75°	3982	5818	6695
80°	3360	6098	7124
85°	2494	6667	7755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.7
10°-20°	208.0	4.9
20°-30°	330.5	7.9
30°-40°	424.2	10.1
40°-50°	479.1	11.4
50°-60°	488.8	11.6
60°-70°	452.9	10.8
70°-80°	383.4	9.1
80°-90°	306.0	7.3
90°-100°	259.9	6.2
100°-110°	231.5	5.5
110°-120°	197.2	4.7
120°-130°	156.6	3.7
130°-140°	111.1	2.6
140°-150°	66.3	1.6
150°-160°	30.9	0.7
160°-170°	7.4	0.2
170°-180°	0.0	0.0
0°-30°	608.7	14.5
0°-40°	1032.9	24.6
0°-60°	2000.8	47.6
0°-90°	3143.1	74.8
90°-120°	688.6	16.4
90°-150°	1022.7	24.3
90°-180°	1061.0	25.2
0°-180°	4204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	735	729	737	737	737	70
15°	708	714	740	754	759	200
25°	656	678	725	751	763	302
35°	580	622	690	732	750	363
45°	488	554	636	692	715	379
55°	395	461	564	633	661	347
65°	271	361	477	559	591	269
75°	142	252	386	481	515	151
85°	36	162	308	408	442	40
90°	2	132	276	375	410	3
95°	0	124	267	364	398	0
105°	0	115	243	335	368	0
115°	0	107	221	301	331	0
125°	0	92	196	266	291	0
135°	0	68	158	224	245	0
145°	0	44	111	168	192	0
155°	1	28	68	103	127	1
165°	1	15	31	42	60	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°	730.2	730.2	730.2	730.2	730.2
2.5°	736.8	729.1	733.1	732.0	728.0
5°	735.0	729.1	736.8	736.8	736.8
7.5°	731.0	727.0	737.9	741.9	743.0
10°	725.1	725.1	740.0	745.9	747.7
12.5°	717.1	720.0	740.0	748.8	753.6
15°	708.3	714.2	740.0	753.6	758.7
17.5°	697.4	707.2	737.9	754.7	761.6
20°	684.6	699.5	735.0	754.7	763.7
22.5°	670.7	689.6	731.0	752.8	763.7
25°	656.0	677.6	725.1	750.7	762.7
27.5°	638.2	665.9	718.2	747.7	761.6
30°	620.3	652.0	710.2	743.8	758.7
32.5°	600.6	637.1	700.3	737.9	754.7
35°	579.8	622.5	689.6	732.0	749.9
37.5°	559.0	604.6	678.7	724.0	743.8
40°	536.4	586.7	665.9	714.2	735.0
42.5°	519.6	568.1	652.0	704.3	726.2
45°	488.1	554.2	636.1	691.5	715.2
47.5°	463.3	527.6	620.3	678.7	703.2
50°	447.6	505.7	601.7	663.8	689.6
52.5°	410.0	491.0	583.8	649.1	676.6
55°	395.1	461.4	564.1	633.1	660.8
57.5°	354.5	440.7	544.4	615.5	644.1
60°	334.8	411.9	522.5	597.7	627.3
62.5°	304.2	387.3	500.9	577.9	608.6
65°	270.6	360.7	477.2	559.0	590.7
67.5°	239.1	334.0	454.5	539.3	572.9
70°	208.5	306.3	430.8	519.6	553.1
72.5°	172.7	278.6	407.9	500.9	534.5
75°	142.4	251.9	386.3	481.2	514.8
77.5°	112.5	226.3	365.5	463.3	496.9
80°	85.0	201.5	344.7	444.7	479.0
82.5°	59.2	180.7	326.0	426.8	460.4
85°	36.5	162.1	308.2	407.9	442.5
87.5°	16.8	145.3	290.3	390.3	425.7
90°	1.9	132.5	275.6	375.3	410.0
92.5°	1.1	128.5	269.8	368.4	402.0
95°	0.0	124.5	266.8	364.4	398.0
97.5°	0.0	120.5	259.9	358.5	393.2
100°	0.0	118.6	254.8	349.7	383.3
102.5°	0.0	115.7	249.0	341.8	375.3
105°	0.0	114.6	243.1	334.8	367.6
107.5°	0.0	112.5	237.0	326.0	358.5
110°	0.0	110.6	232.2	318.0	349.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	108.8	227.1	310.3	340.7
115°	0.0	106.6	221.3	301.2	330.8
117.5°	0.0	103.7	215.4	292.4	322.0
120°	0.0	99.7	209.5	284.4	312.2
122.5°	0.0	95.7	203.4	274.6	301.2
125°	0.0	92.0	196.5	265.8	291.4
127.5°	0.0	85.8	188.7	255.9	279.6
130°	0.0	80.0	178.9	246.1	268.7
132.5°	1.1	74.1	169.0	235.1	257.8
135°	0.0	68.2	158.1	224.2	245.0
137.5°	0.0	63.2	146.1	212.5	232.2
140°	0.0	57.3	134.4	198.6	219.4
142.5°	0.0	50.4	122.6	183.7	205.5
145°	0.0	44.5	110.6	167.9	191.7
147.5°	1.1	39.5	99.7	151.1	176.7
150°	1.1	35.5	89.0	134.4	159.9
152.5°	1.1	31.7	78.1	118.6	143.2
155°	1.1	27.7	68.2	102.6	127.4
157.5°	1.1	23.7	57.3	86.9	110.6
160°	1.1	20.8	47.5	73.0	94.9
162.5°	1.1	17.9	38.7	57.3	78.1
165°	1.1	14.9	30.7	42.4	60.2
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)