

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: P#

Luminaire Tested: **4SNLED-LD5-76HL-SLC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-76HL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

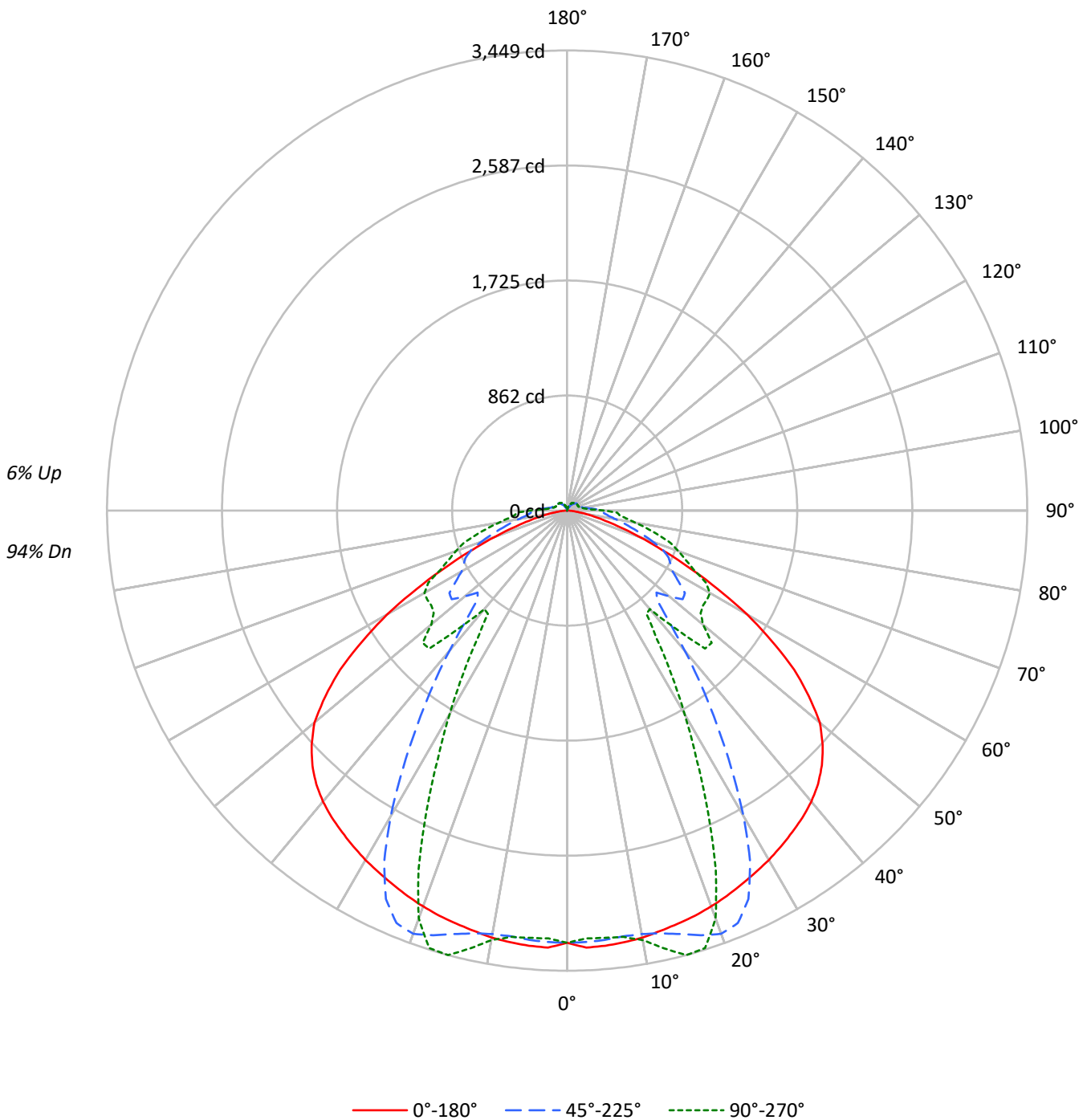
Lumens per Lamp: N/A
Luminaire Lumens: 8319.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26170	26170	26170
5°	26488	25558	25243
10°	26522	25168	25156
15°	26595	25523	26219
20°	26842	26283	24610
25°	27176	25259	18950
30°	27713	21156	13479
35°	28400	16022	9127
40°	29267	11647	7729
45°	29931	8449	12151
50°	29974	9356	11531
55°	28016	10768	11387
60°	23871	9853	12104
65°	17958	9937	11071
70°	12603	9046	10305
75°	8257	7579	9247
80°	5269	6492	7697
85°	2842	6171	6909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	3.7
10°-20°	930.4	11.2
20°-30°	1351.6	16.2
30°-40°	1291.4	15.5
40°-50°	1181.3	14.2
50°-60°	1090.7	13.1
60°-70°	866.4	10.4
70°-80°	534.7	6.4
80°-90°	291.2	3.5
90°-100°	147.2	1.8
100°-110°	92.5	1.1
110°-120°	78.3	0.9
120°-130°	64.0	0.8
130°-140°	45.9	0.6
140°-150°	28.3	0.3
150°-160°	13.4	0.2
160°-170°	3.5	0.0
170°-180°	0.0	0.0
0°-30°	2590.2	31.1
0°-40°	3881.6	46.7
0°-60°	6153.6	74.0
0°-90°	7845.9	94.3
90°-120°	318.0	3.8
90°-150°	456.2	5.5
90°-180°	473.0	5.7
0°-180°	8319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3238	3238	3238	3238	3238	
5°	3274	3224	3230	3213	3214	312
15°	3206	3162	3286	3408	3449	907
25°	3092	3152	3213	2720	2497	1429
35°	2942	2894	1951	1343	1168	1845
45°	2701	1884	952	1214	1462	2076
55°	2077	966	1078	1160	1242	1830
65°	1002	626	840	1021	1045	1013
75°	295	334	503	667	711	335
85°	42	142	285	388	394	53
90°	1	106	255	302	280	2
95°	0	99	176	156	148	0
105°	0	89	109	99	98	0
115°	0	73	105	93	89	1
125°	1	59	93	90	86	1
135°	1	42	74	82	79	1
145°	1	26	52	66	70	1
155°	3	16	32	42	50	1
165°	3	9	16	20	27	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-SLC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3238.5	3238.5	3238.5	3238.5	3238.5
2.5°	3278.6	3231.3	3237.1	3227.0	3209.8
5°	3274.3	3224.2	3229.9	3212.7	3214.1
7.5°	3262.9	3211.3	3218.4	3215.6	3222.7
10°	3250.0	3195.5	3222.7	3247.1	3268.6
12.5°	3227.0	3178.3	3244.2	3315.9	3360.4
15°	3205.5	3162.5	3285.8	3407.7	3449.2
17.5°	3184.0	3156.8	3337.4	3443.5	3437.8
20°	3156.8	3153.9	3376.1	3340.3	3252.8
22.5°	3126.7	3155.4	3346.0	3083.7	2911.6
25°	3092.3	3152.5	3212.7	2719.5	2497.3
27.5°	3057.9	3139.6	2970.4	2321.0	2101.7
30°	3023.5	3105.2	2643.6	1956.9	1757.6
32.5°	2983.3	3030.6	2288.0	1634.3	1450.8
35°	2941.8	2894.4	1951.1	1343.3	1168.4
37.5°	2898.7	2698.0	1648.6	1088.1	976.3
40°	2847.1	2451.5	1370.5	933.3	963.4
42.5°	2782.6	2173.3	1125.4	979.2	1188.5
45°	2700.9	1883.8	951.9	1214.3	1462.3
47.5°	2597.7	1605.6	908.9	1390.6	1468.0
50°	2473.0	1350.5	999.2	1333.2	1327.5
52.5°	2283.7	1138.3	1091.0	1215.7	1261.6
55°	2077.3	966.2	1078.1	1159.8	1241.5
57.5°	1816.4	850.1	989.2	1148.3	1242.9
60°	1556.9	772.7	913.2	1146.9	1235.8
62.5°	1270.2	702.5	874.5	1119.6	1172.7
65°	1002.1	626.5	840.1	1020.7	1045.1
67.5°	768.4	549.1	779.9	910.3	959.1
70°	579.2	473.1	685.3	825.8	886.0
72.5°	417.2	401.4	587.8	751.2	814.3
75°	295.3	334.0	503.2	666.6	711.1
77.5°	203.6	272.4	431.5	573.4	609.3
80°	133.3	217.9	367.0	493.2	517.5
82.5°	80.3	174.9	318.3	431.5	444.4
85°	41.6	141.9	285.3	388.5	394.2
87.5°	12.9	119.0	266.6	368.4	375.6
90°	1.4	106.1	255.2	302.5	279.6
92.5°	0.0	100.4	220.8	206.4	184.9
95°	0.0	98.9	176.3	156.3	147.7
97.5°	0.0	96.1	144.8	130.5	126.2
100°	0.0	93.2	124.7	114.7	113.3
102.5°	0.0	91.8	113.3	104.7	103.2
105°	0.0	88.9	109.0	98.9	97.5
107.5°	0.0	84.6	106.1	96.1	93.2
110°	0.0	80.3	106.1	94.6	90.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-SLC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	76.0	106.1	93.2	88.9
115°	0.0	73.1	104.7	93.2	88.9
117.5°	1.4	70.2	103.2	93.2	88.9
120°	0.0	67.4	100.4	93.2	87.4
122.5°	1.4	63.1	97.5	91.8	87.4
125°	1.4	58.8	93.2	90.3	86.0
127.5°	1.4	54.5	88.9	87.4	83.1
130°	1.4	50.2	84.6	86.0	81.7
132.5°	1.4	45.9	78.8	83.1	80.3
135°	1.4	41.6	74.5	81.7	78.8
137.5°	1.4	37.3	68.8	77.4	77.4
140°	1.4	33.0	63.1	74.5	76.0
142.5°	1.4	30.1	57.3	71.7	73.1
145°	1.4	25.8	51.6	65.9	70.2
147.5°	1.4	22.9	45.9	60.2	65.9
150°	1.4	20.1	40.1	54.5	60.2
152.5°	1.4	17.2	35.8	47.3	55.9
155°	2.9	15.8	31.5	41.6	50.2
157.5°	2.9	12.9	25.8	35.8	43.0
160°	2.9	11.5	22.9	30.1	38.7
162.5°	2.9	10.0	18.6	25.8	33.0
165°	2.9	8.6	15.8	20.1	27.2
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)