

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: **8SNLED-LD5-200HL-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: 8SNLED-LD5-200HL-SLC-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

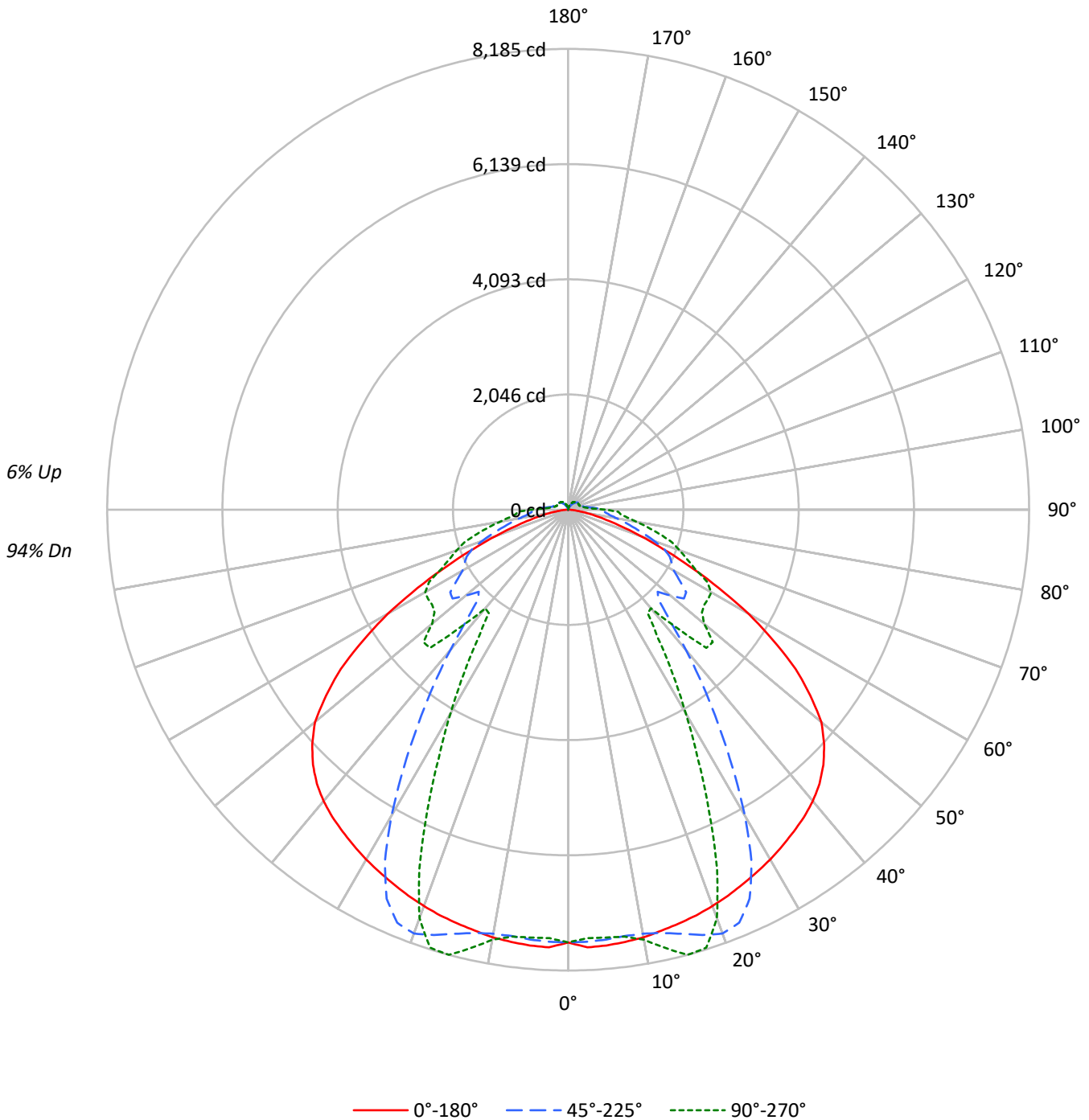
Lumens per Lamp: N/A
Luminaire Lumens: 19740.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
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	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°	31050	31050	31050
5°	31470	30351	29950
10°	31553	29917	29846
15°	31685	30365	31108
20°	32027	31297	29199
25°	32476	30105	22483
30°	33173	25238	15992
35°	34059	19133	10829
40°	35173	13923	9169
45°	36058	10111	14416
50°	36211	11210	13681
55°	33965	12919	13510
60°	29067	11841	14360
65°	21996	11964	13135
70°	15567	10917	12226
75°	10338	9174	10971
80°	6763	7891	9132
85°	3882	7544	8198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.1	3.7
10°-20°	2207.8	11.2
20°-30°	3207.3	16.2
30°-40°	3064.4	15.5
40°-50°	2803.0	14.2
50°-60°	2588.1	13.1
60°-70°	2055.8	10.4
70°-80°	1268.9	6.4
80°-90°	691.0	3.5
90°-100°	349.2	1.8
100°-110°	219.4	1.1
110°-120°	185.9	0.9
120°-130°	151.8	0.8
130°-140°	108.9	0.6
140°-150°	67.2	0.3
150°-160°	31.9	0.2
160°-170°	8.3	0.0
170°-180°	0.0	0.0
0°-30°	6146.2	31.1
0°-40°	9210.5	46.7
0°-60°	14601.7	74.0
0°-90°	18617.4	94.3
90°-120°	754.5	3.8
90°-150°	1082.4	5.5
90°-180°	1123.0	5.7
0°-180°	19740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7685	7685	7685	7685	7685	
5°	7770	7651	7664	7623	7627	739
15°	7606	7504	7797	8086	8185	2153
25°	7338	7480	7623	6453	5926	3391
35°	6980	6868	4630	3188	2772	4377
45°	6409	4470	2259	2881	3470	4925
55°	4929	2293	2558	2752	2946	4341
65°	2378	1487	1993	2422	2480	2405
75°	701	793	1194	1582	1687	794
85°	99	337	677	922	936	126
90°	3	252	606	718	663	5
95°	0	235	418	371	350	0
105°	0	211	258	235	231	0
115°	0	174	248	221	211	2
125°	3	140	221	214	204	3
135°	3	99	177	194	187	3
145°	3	61	122	156	167	2
155°	7	37	75	99	119	2
165°	7	20	37	48	65	1
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°	7684.6	7684.6	7684.6	7684.6	7684.6
2.5°	7779.8	7667.6	7681.2	7657.4	7616.6
5°	7769.6	7650.6	7664.2	7623.4	7626.8
7.5°	7742.4	7620.0	7637.0	7630.2	7647.2
10°	7711.8	7582.5	7647.2	7705.0	7756.0
12.5°	7657.4	7541.7	7698.2	7868.3	7973.7
15°	7606.4	7504.3	7796.9	8086.0	8184.7
17.5°	7555.3	7490.7	7919.3	8171.0	8157.4
20°	7490.7	7483.9	8011.2	7926.1	7718.6
22.5°	7419.3	7487.3	7939.7	7317.2	6909.0
25°	7337.6	7480.5	7623.4	6453.2	5925.9
27.5°	7256.0	7449.9	7048.5	5507.5	4987.0
30°	7174.3	7368.2	6272.9	4643.4	4170.6
32.5°	7079.1	7191.3	5429.2	3878.0	3442.6
35°	6980.4	6868.2	4629.8	3187.5	2772.4
37.5°	6878.4	6402.1	3912.0	2581.9	2316.6
40°	6755.9	5817.0	3252.1	2214.6	2286.0
42.5°	6602.8	5157.1	2670.4	2323.4	2820.1
45°	6408.9	4469.9	2258.8	2881.3	3469.8
47.5°	6164.0	3810.0	2156.7	3299.7	3483.4
50°	5868.0	3204.5	2371.0	3163.6	3150.0
52.5°	5419.0	2701.0	2588.7	2884.7	2993.6
55°	4929.2	2292.8	2558.1	2752.0	2945.9
57.5°	4310.0	2017.2	2347.2	2724.8	2949.3
60°	3694.3	1833.6	2166.9	2721.4	2932.3
62.5°	3014.0	1666.9	2075.1	2656.8	2782.6
65°	2377.8	1486.6	1993.4	2422.1	2479.9
67.5°	1823.3	1302.9	1850.6	2160.1	2275.8
70°	1374.3	1122.6	1626.0	1959.4	2102.3
72.5°	989.9	952.5	1394.7	1782.5	1932.2
75°	700.8	792.6	1194.0	1581.8	1687.3
77.5°	483.1	646.3	1023.9	1360.7	1445.8
80°	316.4	517.1	870.9	1170.2	1228.0
82.5°	190.5	415.0	755.2	1023.9	1054.5
85°	98.7	336.8	677.0	921.9	935.5
87.5°	30.6	282.3	632.7	874.3	891.3
90°	3.4	251.7	605.5	717.8	663.3
92.5°	0.0	238.1	523.9	489.9	438.8
95°	0.0	234.7	418.4	370.8	350.4
97.5°	0.0	227.9	343.6	309.6	299.4
100°	0.0	221.1	296.0	272.1	268.7
102.5°	0.0	217.7	268.7	248.3	244.9
105°	0.0	210.9	258.5	234.7	231.3
107.5°	0.0	200.7	251.7	227.9	221.1
110°	0.0	190.5	251.7	224.5	214.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	180.3	251.7	221.1	210.9
115°	0.0	173.5	248.3	221.1	210.9
117.5°	3.4	166.7	244.9	221.1	210.9
120°	0.0	159.9	238.1	221.1	207.5
122.5°	3.4	149.7	231.3	217.7	207.5
125°	3.4	139.5	221.1	214.3	204.1
127.5°	3.4	129.3	210.9	207.5	197.3
130°	3.4	119.1	200.7	204.1	193.9
132.5°	3.4	108.9	187.1	197.3	190.5
135°	3.4	98.7	176.9	193.9	187.1
137.5°	3.4	88.4	163.3	183.7	183.7
140°	3.4	78.2	149.7	176.9	180.3
142.5°	3.4	71.4	136.1	170.1	173.5
145°	3.4	61.2	122.5	156.5	166.7
147.5°	3.4	54.4	108.9	142.9	156.5
150°	3.4	47.6	95.2	129.3	142.9
152.5°	3.4	40.8	85.0	112.3	132.7
155°	6.8	37.4	74.8	98.7	119.1
157.5°	6.8	30.6	61.2	85.0	102.1
160°	6.8	27.2	54.4	71.4	91.8
162.5°	6.8	23.8	44.2	61.2	78.2
165°	6.8	20.4	37.4	47.6	64.6
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)