

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-SLN-UNV-L835-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-SLN-UNV-L835-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

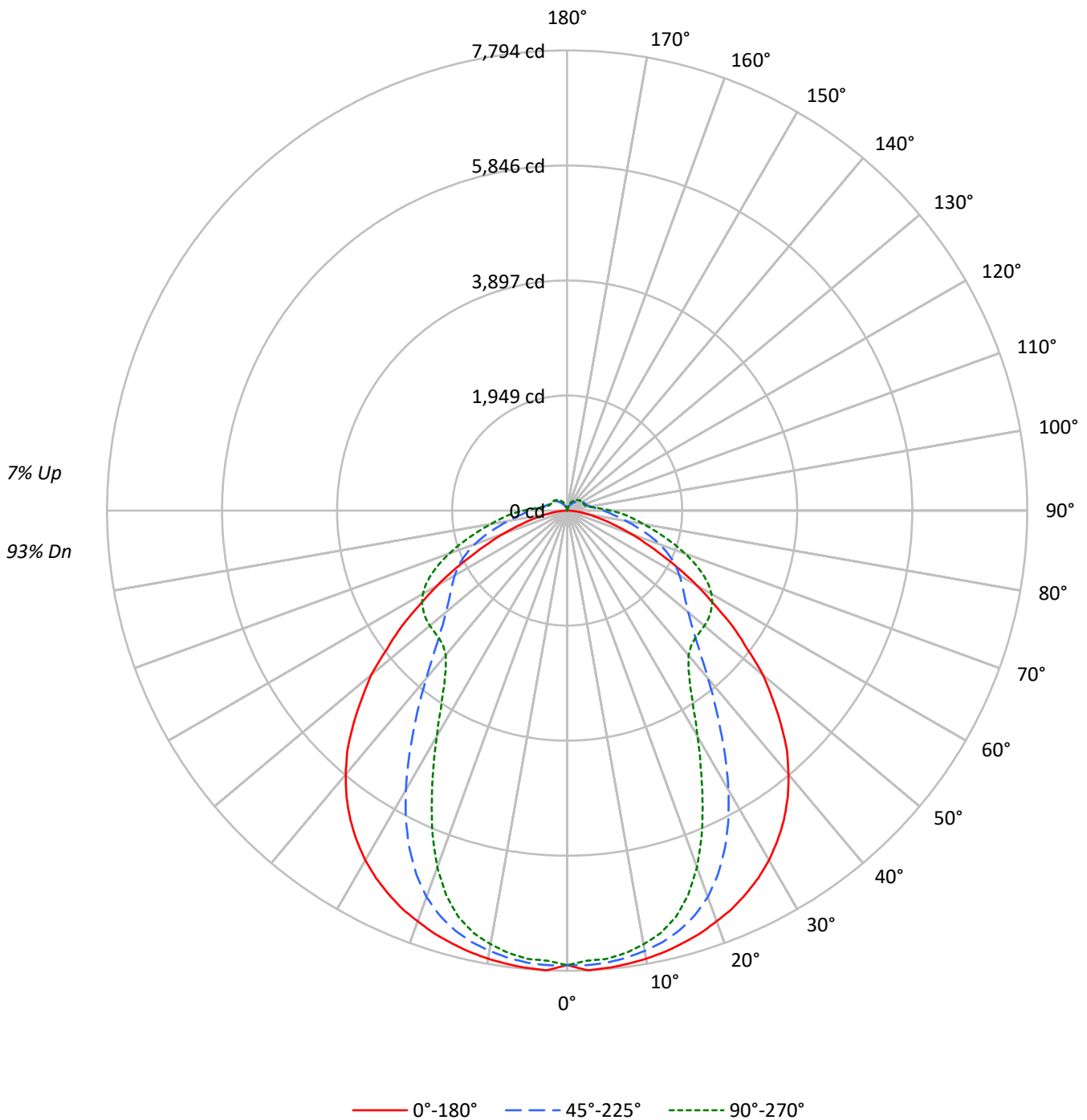
Lumens per Lamp: N/A
Luminaire Lumens: 19357.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31100	31100	31100
5°	31502	30442	29937
10°	31535	29628	28706
15°	31589	28661	27068
20°	31650	27208	24309
25°	31713	24954	20586
30°	31615	21978	16932
35°	31223	18717	14189
40°	30373	15868	12827
45°	28833	13806	12730
50°	26712	12637	13177
55°	23603	12164	13638
60°	20003	12009	13826
65°	16184	11765	13395
70°	13110	11184	12354
75°	10017	10152	10962
80°	7579	9153	9752
85°	5393	8685	8970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.2	3.8
10°-20°	2058.3	10.6
20°-30°	2877.3	14.9
30°-40°	2984.5	15.4
40°-50°	2757.2	14.2
50°-60°	2461.6	12.7
60°-70°	1994.9	10.3
70°-80°	1326.9	6.9
80°-90°	759.8	3.9
90°-100°	420.4	2.2
100°-110°	284.7	1.5
110°-120°	237.0	1.2
120°-130°	192.7	1.0
130°-140°	139.0	0.7
140°-150°	83.8	0.4
150°-160°	40.3	0.2
160°-170°	10.4	0.1
170°-180°	0.0	0.0
0°-30°	5663.8	29.3
0°-40°	8648.2	44.7
0°-60°	13867.0	71.6
0°-90°	17948.7	92.7
90°-120°	942.1	4.9
90°-150°	1357.5	7.0
90°-180°	1408.0	7.3
0°-180°	19357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7697	7697	7697	7697	7697	
5°	7777	7647	7687	7634	7624	740
15°	7583	7423	7359	7192	7122	2143
25°	7165	6848	6319	5657	5426	3302
35°	6399	5697	4529	3803	3633	3993
45°	5125	4061	3084	2974	3064	3940
55°	3425	2589	2408	2800	2974	3046
65°	1750	1566	1960	2402	2529	1768
75°	679	850	1321	1619	1686	745
85°	137	395	779	997	1024	158
90°	7	278	616	743	736	11
95°	7	234	488	522	505	5
105°	3	204	351	341	324	3
115°	3	184	311	308	298	3
125°	3	157	274	288	281	4
135°	7	117	217	254	254	5
145°	7	74	150	197	211	4
155°	7	47	94	124	150	3
165°	7	27	47	60	80	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7697.1	7697.1	7697.1	7697.1	7697.1
2.5°	7794.1	7667.0	7707.2	7673.7	7630.2
5°	7777.4	7646.9	7687.1	7633.6	7623.5
7.5°	7747.3	7616.8	7640.3	7576.7	7560.0
10°	7707.2	7570.0	7573.3	7483.0	7459.6
12.5°	7653.6	7503.1	7483.0	7359.3	7325.8
15°	7583.4	7422.8	7359.3	7192.0	7121.8
17.5°	7506.4	7319.1	7188.7	6931.1	6820.7
20°	7402.7	7192.0	6964.5	6573.2	6426.0
22.5°	7299.0	7038.1	6673.5	6151.7	5954.3
25°	7165.2	6847.5	6318.9	5656.6	5425.8
27.5°	7014.7	6623.3	5910.8	5148.1	4900.6
30°	6837.4	6352.4	5462.6	4649.7	4415.6
32.5°	6630.0	6048.0	4990.9	4201.5	3984.0
35°	6399.2	5696.7	4529.3	3803.4	3632.8
37.5°	6134.9	5312.0	4101.1	3482.3	3371.9
40°	5833.9	4893.9	3706.4	3234.7	3197.9
42.5°	5509.4	4485.8	3368.5	3074.2	3107.6
45°	5124.7	4061.0	3084.2	2973.8	3064.1
47.5°	4720.0	3646.2	2853.4	2916.9	3047.4
50°	4328.6	3261.5	2672.7	2880.1	3034.0
52.5°	3843.5	2916.9	2528.9	2846.7	3014.0
55°	3425.4	2589.1	2408.5	2799.9	2973.8
57.5°	2943.7	2294.8	2301.4	2739.7	2913.6
60°	2542.3	2027.1	2197.7	2656.0	2823.3
62.5°	2134.2	1786.3	2084.0	2545.6	2696.2
65°	1749.5	1565.5	1960.2	2401.8	2528.9
67.5°	1428.4	1364.8	1819.7	2227.8	2334.9
70°	1157.4	1180.8	1665.9	2033.8	2124.2
72.5°	889.8	1010.2	1498.6	1826.4	1903.4
75°	679.1	849.7	1321.3	1619.0	1685.9
77.5°	501.8	709.2	1160.8	1431.7	1488.6
80°	354.6	585.4	1010.2	1267.8	1311.3
82.5°	237.5	481.7	886.5	1120.6	1160.8
85°	137.1	394.7	779.4	996.8	1023.6
87.5°	56.9	327.8	692.4	869.7	883.1
90°	6.7	277.6	615.5	742.6	735.9
92.5°	6.7	250.9	548.6	622.2	605.5
95°	6.7	234.2	488.4	521.8	505.1
97.5°	6.7	224.1	434.9	448.2	431.5
100°	3.3	217.4	398.1	398.1	381.3
102.5°	3.3	210.7	371.3	361.3	347.9
105°	3.3	204.1	351.2	341.2	324.5
107.5°	3.3	200.7	337.9	327.8	311.1
110°	3.3	194.0	327.8	317.8	304.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	190.7	321.1	314.4	297.7
115°	3.3	184.0	311.1	307.8	297.7
117.5°	3.3	177.3	304.4	304.4	294.4
120°	3.3	170.6	294.4	301.1	291.0
122.5°	3.3	163.9	284.3	294.4	284.3
125°	3.3	157.2	274.3	287.7	281.0
127.5°	6.7	147.2	260.9	281.0	274.3
130°	3.3	137.1	247.5	274.3	271.0
132.5°	6.7	127.1	234.2	264.3	264.3
135°	6.7	117.1	217.4	254.2	254.2
137.5°	6.7	103.7	200.7	240.8	244.2
140°	6.7	93.7	184.0	227.5	234.2
142.5°	6.7	83.6	167.3	214.1	224.1
145°	6.7	73.6	150.5	197.4	210.7
147.5°	6.7	66.9	133.8	177.3	197.4
150°	6.7	56.9	120.4	160.6	180.6
152.5°	6.7	50.2	107.0	143.8	167.3
155°	6.7	46.8	93.7	123.8	150.5
157.5°	6.7	40.1	80.3	107.0	133.8
160°	6.7	33.5	66.9	93.7	113.7
162.5°	6.7	30.1	56.9	76.9	100.4
165°	6.7	26.8	46.8	60.2	80.3
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)