

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-LD5-75SL-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-LD5-75SL-SLC-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

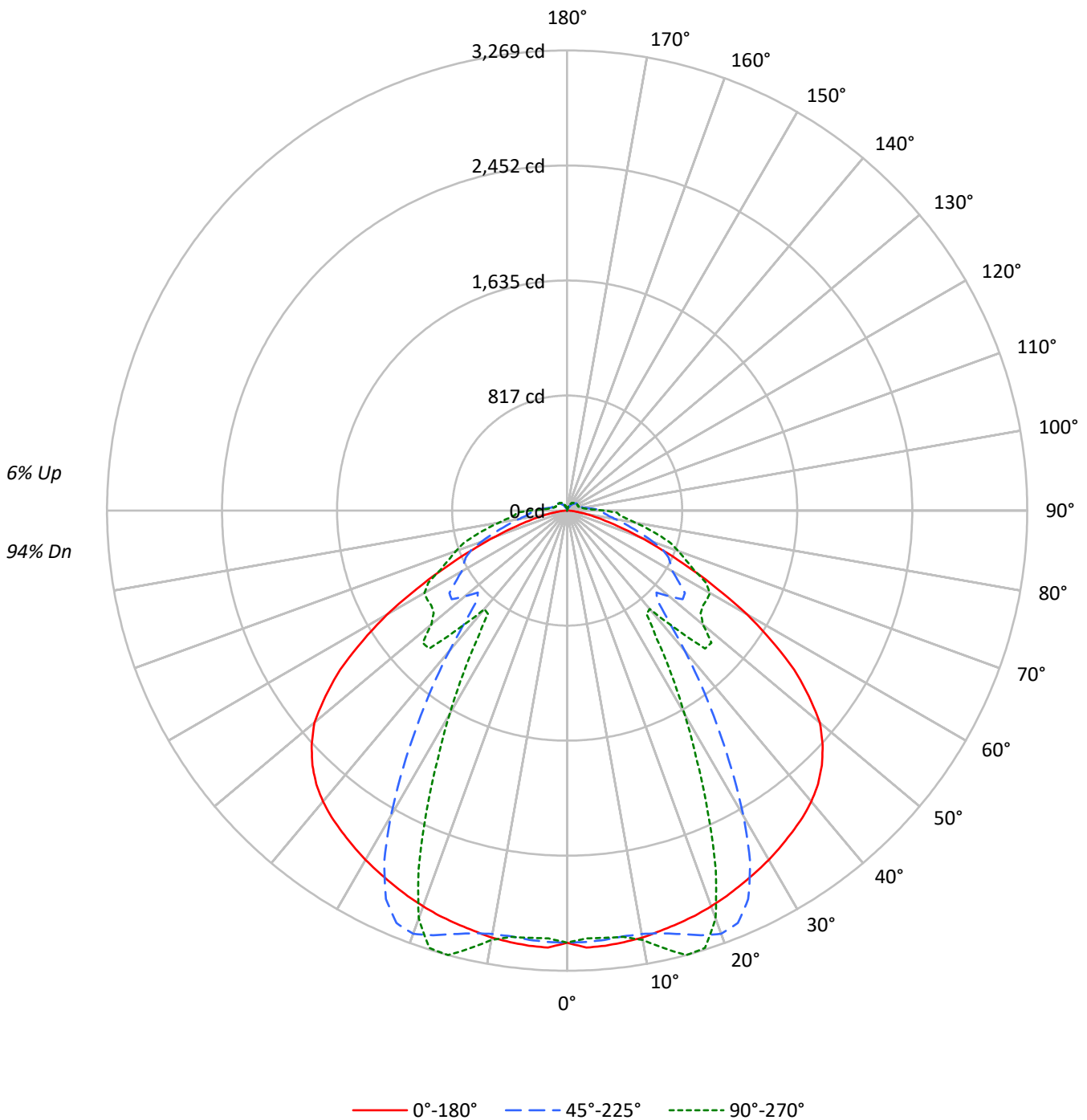
Lumens per Lamp: N/A
Luminaire Lumens: 7884.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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°	12401	12401	12401
5°	12569	12122	11962
10°	12602	11948	11920
15°	12655	12128	12424
20°	12791	12500	11662
25°	12971	12024	8979
30°	13249	10080	6387
35°	13603	7641	4325
40°	14048	5561	3662
45°	14401	4038	5757
50°	14463	4477	5464
55°	13566	5160	5396
60°	11609	4729	5735
65°	8785	4779	5246
70°	6218	4360	4883
75°	4129	3664	4382
80°	2702	3151	3648
85°	1550	3013	3274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	3.7
10°-20°	881.8	11.2
20°-30°	1280.9	16.2
30°-40°	1223.9	15.5
40°-50°	1119.5	14.2
50°-60°	1033.7	13.1
60°-70°	821.1	10.4
70°-80°	506.8	6.4
80°-90°	276.0	3.5
90°-100°	139.5	1.8
100°-110°	87.6	1.1
110°-120°	74.2	0.9
120°-130°	60.6	0.8
130°-140°	43.5	0.6
140°-150°	26.8	0.3
150°-160°	12.7	0.2
160°-170°	3.3	0.0
170°-180°	0.0	0.0
0°-30°	2454.7	31.1
0°-40°	3678.6	46.7
0°-60°	5831.8	74.0
0°-90°	7435.7	94.3
90°-120°	301.3	3.8
90°-150°	432.3	5.5
90°-180°	448.0	5.7
0°-180°	7884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3069	3069	3069	3069	3069	
5°	3103	3056	3061	3045	3046	295
15°	3038	2997	3114	3230	3269	860
25°	2931	2988	3045	2577	2367	1355
35°	2788	2743	1849	1273	1107	1748
45°	2560	1785	902	1151	1386	1967
55°	1969	916	1022	1099	1177	1734
65°	950	594	796	967	990	960
75°	280	317	477	632	674	317
85°	39	134	270	368	374	50
90°	1	100	242	287	265	2
95°	0	94	167	148	140	0
105°	0	84	103	94	92	0
115°	0	69	99	88	84	1
125°	1	56	88	86	82	1
135°	1	39	71	77	75	1
145°	1	24	49	62	67	1
155°	3	15	30	39	48	1
165°	3	8	15	19	26	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°	3069.2	3069.2	3069.2	3069.2	3069.2
2.5°	3107.2	3062.4	3067.8	3058.3	3042.0
5°	3103.1	3055.6	3061.0	3044.7	3046.1
7.5°	3092.3	3043.4	3050.1	3047.4	3054.2
10°	3080.0	3028.4	3054.2	3077.3	3097.7
12.5°	3058.3	3012.1	3074.6	3142.5	3184.7
15°	3037.9	2997.2	3114.0	3229.5	3268.9
17.5°	3017.5	2991.7	3162.9	3263.5	3258.0
20°	2991.7	2989.0	3199.6	3165.6	3082.8
22.5°	2963.2	2990.4	3171.1	2922.4	2759.4
25°	2930.6	2987.6	3044.7	2577.3	2366.7
27.5°	2898.0	2975.4	2815.1	2199.6	1991.8
30°	2865.4	2942.8	2505.3	1854.5	1665.7
32.5°	2827.3	2872.2	2168.4	1548.8	1374.9
35°	2787.9	2743.1	1849.1	1273.0	1107.3
37.5°	2747.2	2557.0	1562.4	1031.2	925.2
40°	2698.3	2323.3	1298.9	884.5	913.0
42.5°	2637.1	2059.7	1066.5	928.0	1126.3
45°	2559.7	1785.3	902.1	1150.8	1385.8
47.5°	2461.9	1521.7	861.4	1317.9	1391.2
50°	2343.7	1279.8	947.0	1263.5	1258.1
52.5°	2164.3	1078.8	1033.9	1152.1	1195.6
55°	1968.7	915.7	1021.7	1099.1	1176.6
57.5°	1721.4	805.7	937.5	1088.3	1177.9
60°	1475.5	732.3	865.5	1086.9	1171.1
62.5°	1203.8	665.7	828.8	1061.1	1111.4
65°	949.7	593.7	796.2	967.4	990.4
67.5°	728.2	520.4	739.1	862.7	908.9
70°	548.9	448.4	649.4	782.6	839.6
72.5°	395.4	380.4	557.0	711.9	771.7
75°	279.9	316.6	476.9	631.8	673.9
77.5°	192.9	258.1	409.0	543.5	577.4
80°	126.4	206.5	347.8	467.4	490.5
82.5°	76.1	165.8	301.6	409.0	421.2
85°	39.4	134.5	270.4	368.2	373.6
87.5°	12.2	112.8	252.7	349.2	356.0
90°	1.4	100.5	241.8	286.7	264.9
92.5°	0.0	95.1	209.2	195.6	175.3
95°	0.0	93.7	167.1	148.1	139.9
97.5°	0.0	91.0	137.2	123.6	119.6
100°	0.0	88.3	118.2	108.7	107.3
102.5°	0.0	87.0	107.3	99.2	97.8
105°	0.0	84.2	103.3	93.7	92.4
107.5°	0.0	80.2	100.5	91.0	88.3
110°	0.0	76.1	100.5	89.7	85.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	72.0	100.5	88.3	84.2
115°	0.0	69.3	99.2	88.3	84.2
117.5°	1.4	66.6	97.8	88.3	84.2
120°	0.0	63.9	95.1	88.3	82.9
122.5°	1.4	59.8	92.4	87.0	82.9
125°	1.4	55.7	88.3	85.6	81.5
127.5°	1.4	51.6	84.2	82.9	78.8
130°	1.4	47.6	80.2	81.5	77.4
132.5°	1.4	43.5	74.7	78.8	76.1
135°	1.4	39.4	70.6	77.4	74.7
137.5°	1.4	35.3	65.2	73.4	73.4
140°	1.4	31.2	59.8	70.6	72.0
142.5°	1.4	28.5	54.3	67.9	69.3
145°	1.4	24.5	48.9	62.5	66.6
147.5°	1.4	21.7	43.5	57.1	62.5
150°	1.4	19.0	38.0	51.6	57.1
152.5°	1.4	16.3	34.0	44.8	53.0
155°	2.7	14.9	29.9	39.4	47.6
157.5°	2.7	12.2	24.5	34.0	40.8
160°	2.7	10.9	21.7	28.5	36.7
162.5°	2.7	9.5	17.7	24.5	31.2
165°	2.7	8.2	14.9	19.0	25.8
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)