

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-LD5-83SL-SLN-UNV-L830-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-LD5-83SL-SLN-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

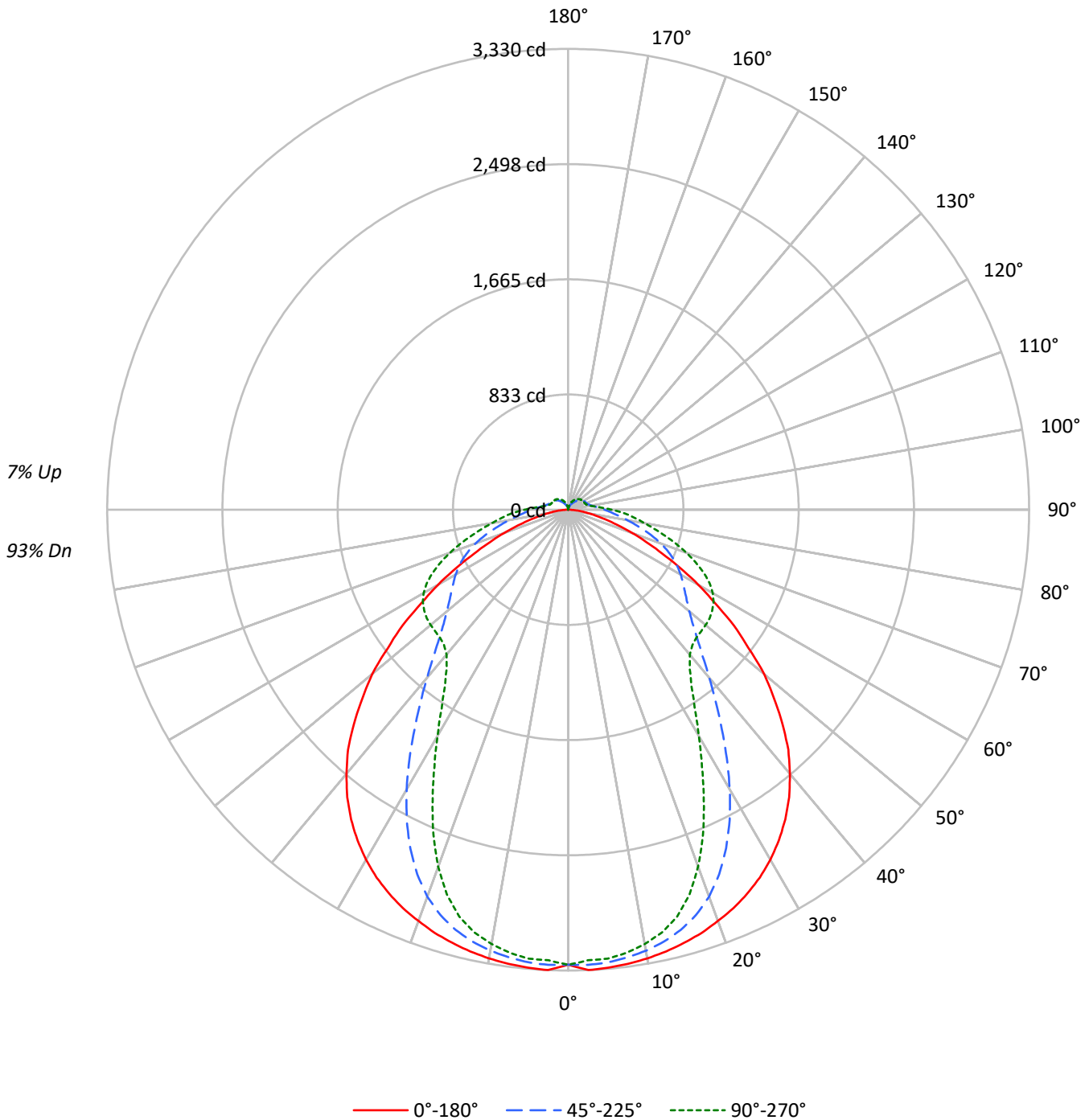
Lumens per Lamp: N/A
Luminaire Lumens: 8269.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
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	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°	13286	13286	13286
5°	13457	13004	12789
10°	13471	12656	12262
15°	13494	12244	11563
20°	13520	11623	10385
25°	13547	10660	8794
30°	13505	9388	7233
35°	13338	7996	6062
40°	12974	6779	5480
45°	12317	5898	5438
50°	11411	5398	5629
55°	10083	5196	5826
60°	8545	5130	5906
65°	6914	5026	5722
70°	5600	4778	5277
75°	4279	4336	4683
80°	3238	3911	4166
85°	2305	3711	3832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.1	3.8
10°-20°	879.3	10.6
20°-30°	1229.1	14.9
30°-40°	1274.9	15.4
40°-50°	1177.8	14.2
50°-60°	1051.6	12.7
60°-70°	852.2	10.3
70°-80°	566.8	6.9
80°-90°	324.6	3.9
90°-100°	179.6	2.2
100°-110°	121.6	1.5
110°-120°	101.3	1.2
120°-130°	82.3	1.0
130°-140°	59.4	0.7
140°-150°	35.8	0.4
150°-160°	17.2	0.2
160°-170°	4.5	0.1
170°-180°	0.0	0.0
0°-30°	2419.5	29.3
0°-40°	3694.4	44.7
0°-60°	5923.8	71.6
0°-90°	7667.4	92.7
90°-120°	402.4	4.9
90°-150°	579.9	7.0
90°-180°	602.0	7.3
0°-180°	8269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3288	3288	3288	3288	3288	
5°	3322	3267	3284	3261	3257	316
15°	3240	3171	3144	3072	3042	915
25°	3061	2925	2699	2416	2318	1410
35°	2734	2434	1935	1625	1552	1706
45°	2189	1735	1318	1270	1309	1683
55°	1463	1106	1029	1196	1270	1301
65°	747	669	837	1026	1080	755
75°	290	363	564	692	720	318
85°	59	169	333	426	437	67
90°	3	119	263	317	314	5
95°	3	100	209	223	216	2
105°	1	87	150	146	139	1
115°	1	79	133	132	127	1
125°	1	67	117	123	120	2
135°	3	50	93	109	109	2
145°	3	31	64	84	90	2
155°	3	20	40	53	64	1
165°	3	11	20	26	34	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3288.1	3288.1	3288.1	3288.1	3288.1
2.5°	3329.5	3275.2	3292.4	3278.1	3259.5
5°	3322.4	3266.7	3283.8	3260.9	3256.6
7.5°	3309.5	3253.8	3263.8	3236.6	3229.5
10°	3292.4	3233.8	3235.2	3196.6	3186.6
12.5°	3269.5	3205.2	3196.6	3143.8	3129.5
15°	3239.5	3170.9	3143.8	3072.3	3042.3
17.5°	3206.6	3126.6	3070.9	2960.8	2913.7
20°	3162.3	3072.3	2975.1	2807.9	2745.1
22.5°	3118.0	3006.6	2850.8	2627.9	2543.6
25°	3060.9	2925.1	2699.3	2416.4	2317.8
27.5°	2996.6	2829.4	2525.0	2199.2	2093.5
30°	2920.8	2713.6	2333.5	1986.3	1886.3
32.5°	2832.2	2583.6	2132.0	1794.8	1701.9
35°	2733.6	2433.6	1934.8	1624.8	1551.9
37.5°	2620.8	2269.2	1751.9	1487.6	1440.4
40°	2492.1	2090.6	1583.3	1381.8	1366.1
42.5°	2353.5	1916.3	1439.0	1313.2	1327.5
45°	2189.2	1734.8	1317.5	1270.4	1308.9
47.5°	2016.3	1557.6	1218.9	1246.1	1301.8
50°	1849.1	1393.3	1141.8	1230.4	1296.1
52.5°	1641.9	1246.1	1080.3	1216.1	1287.5
55°	1463.3	1106.0	1028.9	1196.1	1270.4
57.5°	1257.5	980.3	983.1	1170.3	1244.6
60°	1086.0	866.0	938.8	1134.6	1206.1
62.5°	911.7	763.1	890.3	1087.5	1151.8
65°	747.4	668.8	837.4	1026.0	1080.3
67.5°	610.2	583.0	777.4	951.7	997.4
70°	494.4	504.4	711.6	868.8	907.4
72.5°	380.1	431.6	640.2	780.2	813.1
75°	290.1	363.0	564.4	691.6	720.2
77.5°	214.3	302.9	495.9	611.6	635.9
80°	151.5	250.1	431.6	541.6	560.2
82.5°	101.5	205.8	378.7	478.7	495.9
85°	58.6	168.6	333.0	425.8	437.3
87.5°	24.3	140.0	295.8	371.5	377.3
90°	2.9	118.6	262.9	317.2	314.4
92.5°	2.9	107.2	234.4	265.8	258.6
95°	2.9	100.0	208.6	222.9	215.8
97.5°	2.9	95.7	185.8	191.5	184.3
100°	1.4	92.9	170.0	170.0	162.9
102.5°	1.4	90.0	158.6	154.3	148.6
105°	1.4	87.2	150.0	145.8	138.6
107.5°	1.4	85.7	144.3	140.0	132.9
110°	1.4	82.9	140.0	135.8	130.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	81.5	137.2	134.3	127.2
115°	1.4	78.6	132.9	131.5	127.2
117.5°	1.4	75.7	130.0	130.0	125.8
120°	1.4	72.9	125.8	128.6	124.3
122.5°	1.4	70.0	121.5	125.8	121.5
125°	1.4	67.2	117.2	122.9	120.0
127.5°	2.9	62.9	111.5	120.0	117.2
130°	1.4	58.6	105.7	117.2	115.7
132.5°	2.9	54.3	100.0	112.9	112.9
135°	2.9	50.0	92.9	108.6	108.6
137.5°	2.9	44.3	85.7	102.9	104.3
140°	2.9	40.0	78.6	97.2	100.0
142.5°	2.9	35.7	71.4	91.5	95.7
145°	2.9	31.4	64.3	84.3	90.0
147.5°	2.9	28.6	57.2	75.7	84.3
150°	2.9	24.3	51.4	68.6	77.2
152.5°	2.9	21.4	45.7	61.4	71.4
155°	2.9	20.0	40.0	52.9	64.3
157.5°	2.9	17.1	34.3	45.7	57.2
160°	2.9	14.3	28.6	40.0	48.6
162.5°	2.9	12.9	24.3	32.9	42.9
165°	2.9	11.4	20.0	25.7	34.3
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)