

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: P284718

Luminaire Tested: **8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7109.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

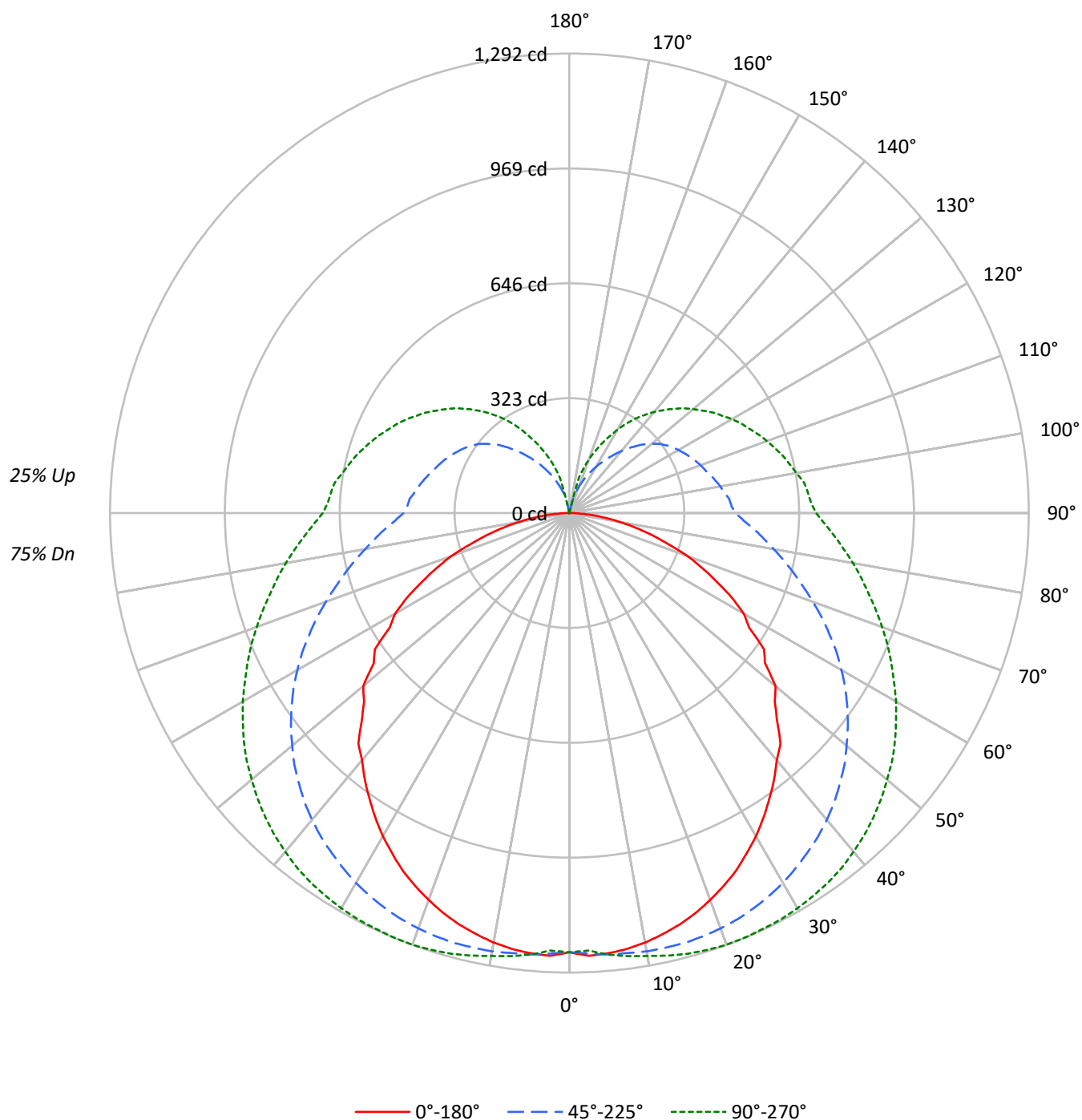
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284718

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284718

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4989	4989	4989
5°	5034	4934	4893
10°	5017	4896	4866
15°	4989	4874	4876
20°	4949	4855	4886
25°	4910	4842	4893
30°	4850	4832	4919
35°	4784	4819	4953
40°	4722	4821	4985
45°	4644	4815	5025
50°	4671	4810	5065
55°	4604	4817	5125
60°	4455	4828	5194
65°	4232	4843	5291
70°	3993	4891	5440
75°	3551	5019	5660
80°	3074	5282	6024
85°	2431	5807	6557



TEST NUMBER: P284718

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	1.7
10°-20°	351.7	4.9
20°-30°	558.9	7.9
30°-40°	717.4	10.1
40°-50°	810.1	11.4
50°-60°	826.6	11.6
60°-70°	765.8	10.8
70°-80°	648.3	9.1
80°-90°	517.5	7.3
90°-100°	439.5	6.2
100°-110°	391.5	5.5
110°-120°	333.5	4.7
120°-130°	264.8	3.7
130°-140°	187.9	2.6
140°-150°	112.2	1.6
150°-160°	52.3	0.7
160°-170°	12.4	0.2
170°-180°	0.0	0.0
0°-30°	1029.3	14.5
0°-40°	1746.6	24.6
0°-60°	3383.3	47.6
0°-90°	5314.9	74.8
90°-120°	1164.4	16.4
90°-150°	1729.4	24.3
90°-180°	1794.0	25.2
0°-180°	7109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1243	1233	1246	1246	1246	118
15°	1198	1208	1251	1274	1283	338
25°	1109	1146	1226	1269	1290	511
35°	980	1053	1166	1238	1268	614
45°	825	937	1076	1169	1210	641
55°	668	780	954	1071	1118	587
65°	458	610	807	945	999	454
75°	241	426	653	814	870	256
85°	62	274	521	690	748	67
90°	3	224	466	635	693	5
95°	0	210	451	616	673	0
105°	0	194	411	566	622	0
115°	0	180	374	509	559	0
125°	0	156	332	449	493	0
135°	0	115	267	379	414	0
145°	0	75	187	284	324	1
155°	2	47	115	174	216	1
165°	2	25	52	72	102	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284718

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.7	1234.7	1234.7	1234.7	1234.7
2.5°	1246.0	1232.9	1239.7	1237.9	1231.1
5°	1242.8	1232.9	1246.0	1246.0	1246.0
7.5°	1236.1	1229.3	1247.8	1254.5	1256.3
10°	1226.1	1226.1	1251.4	1261.3	1264.5
12.5°	1212.6	1217.6	1251.4	1266.3	1274.4
15°	1197.7	1207.7	1251.4	1274.4	1282.9
17.5°	1179.3	1195.9	1247.8	1276.2	1287.9
20°	1157.6	1182.9	1242.8	1276.2	1291.5
22.5°	1134.2	1166.2	1236.1	1273.0	1291.5
25°	1109.4	1145.9	1226.1	1269.4	1289.7
27.5°	1079.2	1126.1	1214.4	1264.5	1287.9
30°	1049.0	1102.6	1200.9	1257.7	1282.9
32.5°	1015.6	1077.4	1184.2	1247.8	1276.2
35°	980.5	1052.6	1166.2	1237.9	1268.1
37.5°	945.3	1022.4	1147.7	1224.3	1257.7
40°	907.0	992.2	1126.1	1207.7	1242.8
42.5°	878.6	960.6	1102.6	1191.0	1227.9
45°	825.4	937.2	1075.6	1169.3	1209.5
47.5°	783.5	892.1	1049.0	1147.7	1189.2
50°	756.9	855.1	1017.4	1122.5	1166.2
52.5°	693.3	830.3	987.2	1097.7	1144.1
55°	668.1	780.3	953.9	1070.6	1117.5
57.5°	599.5	745.1	920.5	1040.9	1089.1
60°	566.2	696.5	883.5	1010.7	1060.7
62.5°	514.3	655.0	847.0	977.3	1029.1
65°	457.5	609.9	806.9	945.3	998.9
67.5°	404.4	564.8	768.6	911.9	968.7
70°	352.5	518.0	728.5	878.6	935.4
72.5°	292.1	471.1	689.7	847.0	903.8
75°	240.7	426.0	653.2	813.7	870.5
77.5°	190.2	382.7	618.0	783.5	840.3
80°	143.8	340.8	582.9	751.9	810.1
82.5°	100.1	305.6	551.3	721.7	778.5
85°	61.8	274.1	521.1	689.7	748.3
87.5°	28.4	245.7	490.9	659.9	719.9
90°	3.2	224.0	466.1	634.7	693.3
92.5°	1.8	217.3	456.2	623.0	679.8
95°	0.0	210.5	451.2	616.2	673.0
97.5°	0.0	203.8	439.5	606.3	664.9
100°	0.0	200.6	431.0	591.4	648.2
102.5°	0.0	195.6	421.0	577.9	634.7
105°	0.0	193.8	411.1	566.2	621.6
107.5°	0.0	190.2	400.7	551.3	606.3
110°	0.0	187.1	392.6	537.8	591.4



TEST NUMBER: P284718

CATALOG NUMBER: 8SNLED-LD5-83SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	183.9	384.1	524.7	576.1
115°	0.0	180.3	374.2	509.4	559.4
117.5°	0.0	175.4	364.2	494.5	544.5
120°	0.0	168.6	354.3	481.0	527.9
122.5°	0.0	161.8	343.9	464.3	509.4
125°	0.0	155.5	332.2	449.4	492.7
127.5°	0.0	145.2	319.2	432.8	472.9
130°	0.0	135.2	302.5	416.1	454.4
132.5°	1.8	125.3	285.8	397.6	435.9
135°	0.0	115.4	267.3	379.1	414.3
137.5°	0.0	106.8	247.0	359.3	392.6
140°	0.0	96.9	227.2	335.8	371.0
142.5°	0.0	85.2	207.4	310.6	347.6
145°	0.0	75.3	187.1	284.0	324.1
147.5°	1.8	66.7	168.6	255.6	298.9
150°	1.8	60.0	150.6	227.2	270.5
152.5°	1.8	53.6	132.1	200.6	242.1
155°	1.8	46.9	115.4	173.6	215.5
157.5°	1.8	40.1	96.9	147.0	187.1
160°	1.8	35.2	80.2	123.5	160.5
162.5°	1.8	30.2	65.4	96.9	132.1
165°	1.8	25.2	51.8	71.7	101.9
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)