

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: P284523

Luminaire Tested: **8SNLED-LD5-83SL-SLW-UNV-L835-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: P284523
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-L835-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: 8267.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

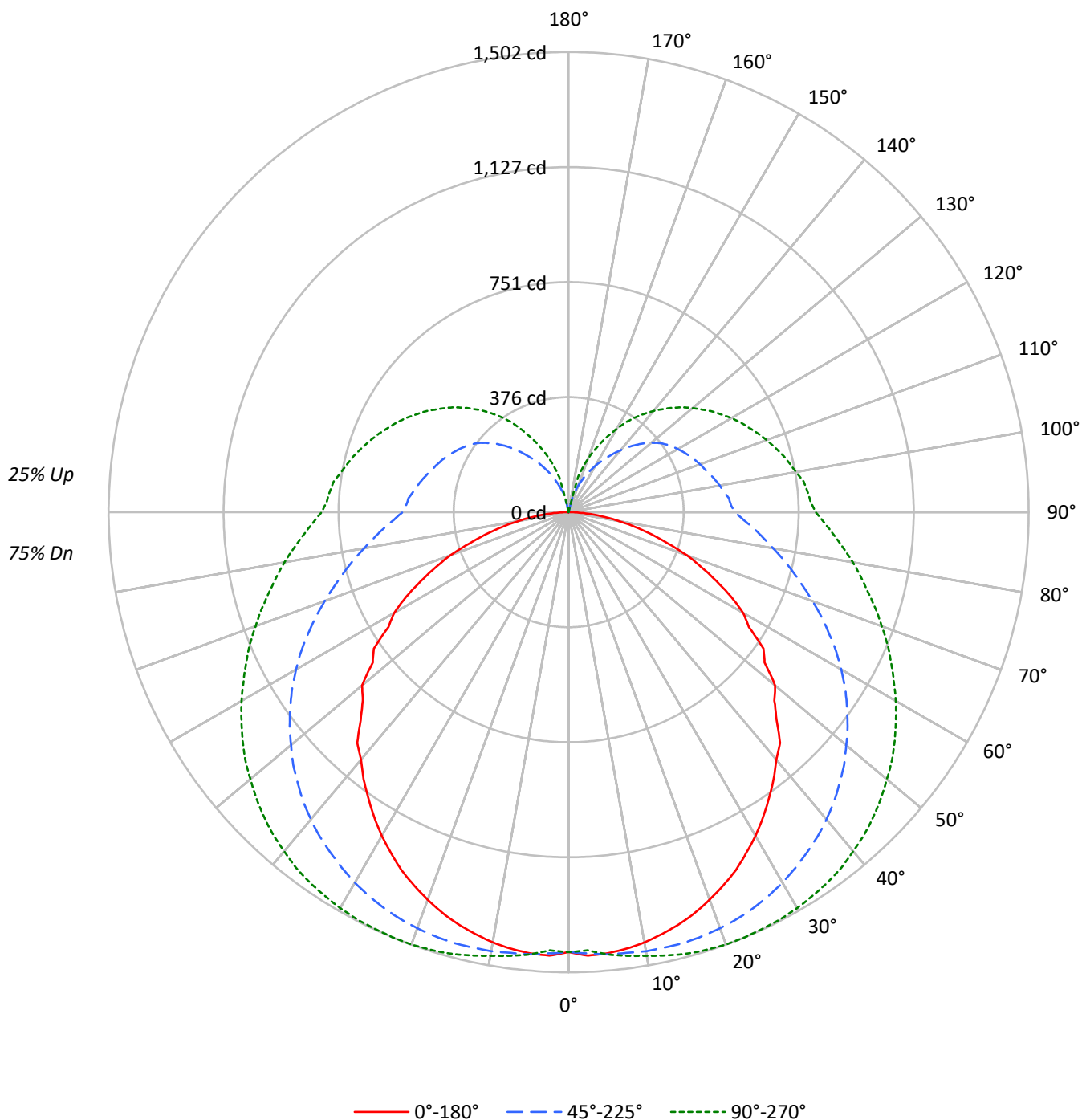
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	5801	5801	5801
5°	5854	5738	5690
10°	5834	5693	5658
15°	5802	5667	5670
20°	5756	5646	5682
25°	5710	5631	5690
30°	5640	5619	5721
35°	5563	5604	5760
40°	5491	5606	5797
45°	5400	5599	5843
50°	5432	5594	5890
55°	5353	5602	5959
60°	5180	5615	6041
65°	4922	5632	6153
70°	4643	5687	6326
75°	4129	5836	6582
80°	3574	6141	7005
85°	2824	6753	7625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.7
10°-20°	409.0	4.9
20°-30°	650.0	7.9
30°-40°	834.2	10.1
40°-50°	942.0	11.4
50°-60°	961.2	11.6
60°-70°	890.5	10.8
70°-80°	753.9	9.1
80°-90°	601.8	7.3
90°-100°	511.0	6.2
100°-110°	455.3	5.5
110°-120°	387.8	4.7
120°-130°	308.0	3.7
130°-140°	218.5	2.6
140°-150°	130.5	1.6
150°-160°	60.8	0.7
160°-170°	14.5	0.2
170°-180°	0.0	0.0
0°-30°	1196.9	14.5
0°-40°	2031.1	24.6
0°-60°	3934.4	47.6
0°-90°	6180.6	74.8
90°-120°	1354.1	16.4
90°-150°	2011.1	24.3
90°-180°	2086.0	25.2
0°-180°	8267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1445	1434	1449	1449	1449	137
15°	1393	1404	1455	1482	1492	393
25°	1290	1333	1426	1476	1500	594
35°	1140	1224	1356	1440	1475	714
45°	960	1090	1251	1360	1406	745
55°	777	907	1109	1245	1300	682
65°	532	709	938	1099	1162	528
75°	280	495	760	946	1012	298
85°	72	319	606	802	870	78
90°	4	260	542	738	806	6
95°	0	245	525	717	783	0
105°	0	225	478	658	723	0
115°	0	210	435	592	650	0
125°	0	181	386	523	573	0
135°	0	134	311	441	482	0
145°	0	88	218	330	377	1
155°	2	54	134	202	251	1
165°	2	29	60	83	118	0
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°	1435.8	1435.8	1435.8	1435.8	1435.8
2.5°	1448.9	1433.7	1441.6	1439.5	1431.6
5°	1445.3	1433.7	1448.9	1448.9	1448.9
7.5°	1437.4	1429.5	1451.0	1458.9	1461.0
10°	1425.9	1425.9	1455.2	1466.8	1470.4
12.5°	1410.1	1415.9	1455.2	1472.5	1482.0
15°	1392.8	1404.4	1455.2	1482.0	1491.9
17.5°	1371.3	1390.7	1451.0	1484.0	1497.7
20°	1346.2	1375.5	1445.3	1484.0	1501.9
22.5°	1318.9	1356.1	1437.4	1480.4	1501.9
25°	1290.1	1332.6	1425.9	1476.2	1499.8
27.5°	1255.0	1309.5	1412.2	1470.4	1497.7
30°	1219.8	1282.2	1396.5	1462.6	1491.9
32.5°	1181.1	1252.9	1377.1	1451.0	1484.0
35°	1140.2	1224.0	1356.1	1439.5	1474.6
37.5°	1099.3	1188.9	1334.6	1423.8	1462.6
40°	1054.7	1153.8	1309.5	1404.4	1445.3
42.5°	1021.7	1117.1	1282.2	1385.0	1428.0
45°	959.8	1089.8	1250.8	1359.8	1406.5
47.5°	911.1	1037.4	1219.8	1334.6	1382.9
50°	880.2	994.4	1183.2	1305.3	1356.1
52.5°	806.2	965.6	1148.0	1276.5	1330.5
55°	776.9	907.4	1109.2	1245.0	1299.5
57.5°	697.2	866.5	1070.4	1210.4	1266.5
60°	658.4	809.9	1027.5	1175.3	1233.5
62.5°	598.1	761.7	985.0	1136.5	1196.8
65°	532.1	709.3	938.3	1099.3	1161.7
67.5°	470.2	656.8	893.8	1060.5	1126.5
70°	409.9	602.3	847.1	1021.7	1087.7
72.5°	339.7	547.8	802.0	985.0	1051.0
75°	279.9	495.4	759.6	946.2	1012.3
77.5°	221.2	445.1	718.7	911.1	977.1
80°	167.2	396.3	677.8	874.4	942.0
82.5°	116.4	355.4	641.1	839.3	905.3
85°	71.8	318.7	606.0	802.0	870.2
87.5°	33.0	285.7	570.9	767.4	837.2
90°	3.7	260.5	542.0	738.1	806.2
92.5°	2.1	252.7	530.5	724.5	790.5
95°	0.0	244.8	524.7	716.6	782.7
97.5°	0.0	236.9	511.1	705.1	773.2
100°	0.0	233.3	501.1	687.8	753.8
102.5°	0.0	227.5	489.6	672.0	738.1
105°	0.0	225.4	478.1	658.4	722.9
107.5°	0.0	221.2	466.0	641.1	705.1
110°	0.0	217.5	456.6	625.4	687.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	213.9	446.6	610.2	669.9
115°	0.0	209.7	435.1	592.4	650.5
117.5°	0.0	203.9	423.6	575.1	633.3
120°	0.0	196.1	412.0	559.3	613.9
122.5°	0.0	188.2	400.0	539.9	592.4
125°	0.0	180.9	386.3	522.6	573.0
127.5°	0.0	168.8	371.1	503.2	549.9
130°	0.0	157.3	351.7	483.8	528.4
132.5°	2.1	145.7	332.4	462.4	506.9
135°	0.0	134.2	310.9	440.9	481.8
137.5°	0.0	124.2	287.3	417.8	456.6
140°	0.0	112.7	264.2	390.5	431.4
142.5°	0.0	99.1	241.1	361.2	404.2
145°	0.0	87.5	217.5	330.3	376.9
147.5°	2.1	77.6	196.1	297.2	347.6
150°	2.1	69.7	175.1	264.2	314.5
152.5°	2.1	62.4	153.6	233.3	281.5
155°	2.1	54.5	134.2	201.8	250.6
157.5°	2.1	46.7	112.7	170.9	217.5
160°	2.1	40.9	93.3	143.6	186.6
162.5°	2.1	35.1	76.0	112.7	153.6
165°	2.1	29.4	60.3	83.4	118.5
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)