

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: P284506

Luminaire Tested: **4SNLED-LD5-45SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284506
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: 4SNLED-LD5-45SL-SLW-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4483.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

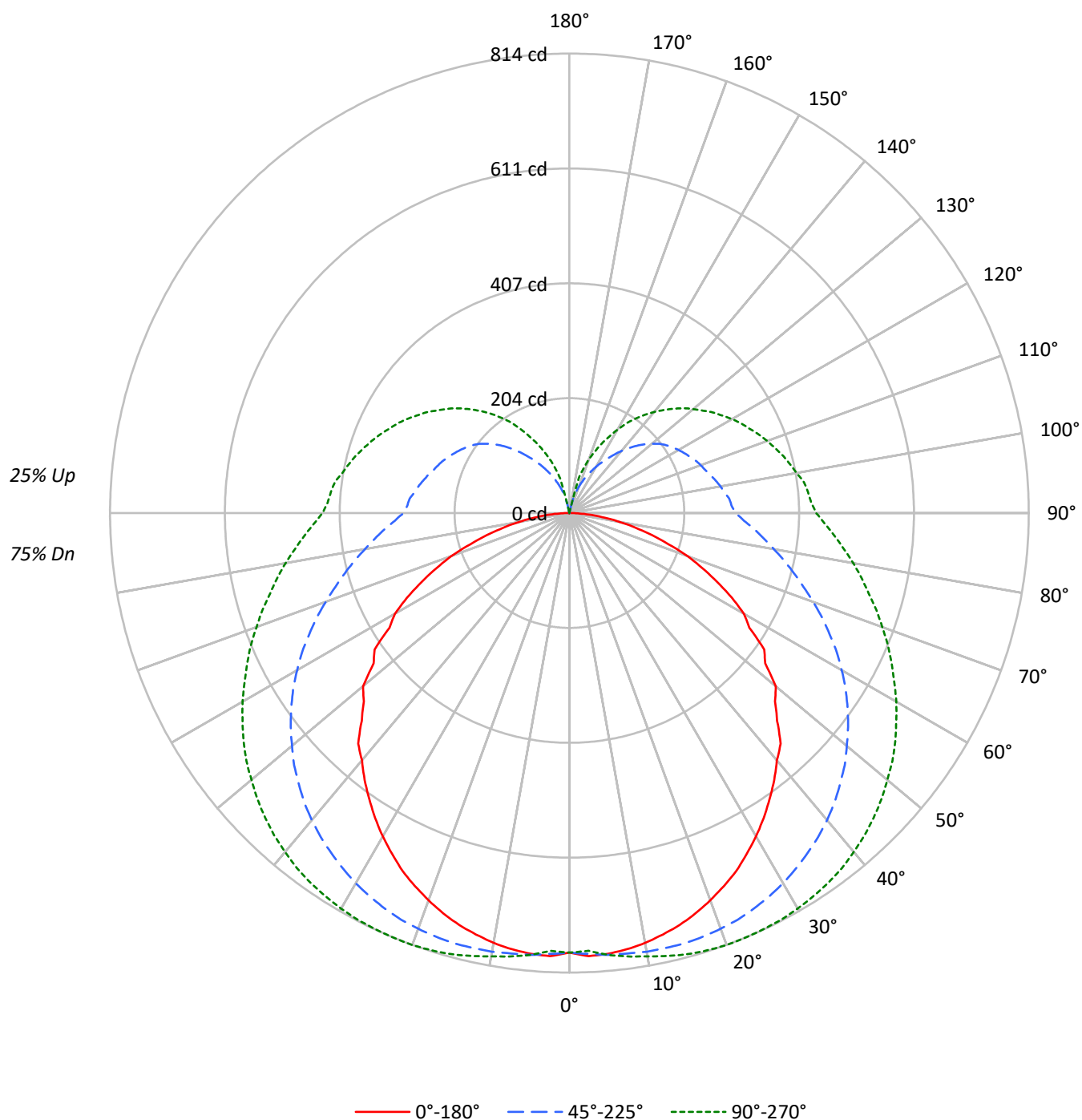
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6292	6292	6292
5°	6340	6217	6171
10°	6310	6163	6137
15°	6266	6129	6150
20°	6207	6101	6162
25°	6148	6079	6171
30°	6063	6060	6204
35°	5969	6039	6246
40°	5879	6035	6287
45°	5768	6021	6337
50°	5785	6008	6388
55°	5682	6008	6463
60°	5474	6012	6551
65°	5170	6018	6673
70°	4837	6064	6861
75°	4245	6204	7138
80°	3585	6503	7597
85°	2658	7108	8270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	1.7
10°-20°	221.8	4.9
20°-30°	352.5	7.9
30°-40°	452.4	10.1
40°-50°	510.8	11.4
50°-60°	521.3	11.6
60°-70°	482.9	10.8
70°-80°	408.8	9.1
80°-90°	326.3	7.3
90°-100°	277.1	6.2
100°-110°	246.9	5.5
110°-120°	210.3	4.7
120°-130°	167.0	3.7
130°-140°	118.5	2.6
140°-150°	70.8	1.6
150°-160°	33.0	0.7
160°-170°	7.8	0.2
170°-180°	0.0	0.0
0°-30°	649.1	14.5
0°-40°	1101.4	24.6
0°-60°	2133.5	47.6
0°-90°	3351.6	74.8
90°-120°	734.3	16.4
90°-150°	1090.6	24.3
90°-180°	1131.0	25.2
0°-180°	4483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	784	778	786	786	786	74
15°	755	762	789	804	809	213
25°	700	723	773	800	813	322
35°	618	664	735	781	800	387
45°	520	591	678	737	763	404
55°	421	492	602	675	705	370
65°	288	385	509	596	630	286
75°	152	269	412	513	549	161
85°	39	173	329	435	472	43
90°	2	141	294	400	437	3
95°	0	133	285	389	424	0
105°	0	122	259	357	392	0
115°	0	114	236	321	353	0
125°	0	98	210	283	311	0
135°	0	73	169	239	261	0
145°	0	48	118	179	204	0
155°	1	30	73	109	136	1
165°	1	16	33	45	64	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°	778.6	778.6	778.6	778.6	778.6
2.5°	785.7	777.5	781.7	780.6	776.3
5°	783.7	777.5	785.7	785.7	785.7
7.5°	779.5	775.2	786.9	791.1	792.3
10°	773.2	773.2	789.1	795.4	797.4
12.5°	764.7	767.8	789.1	798.5	803.6
15°	755.3	761.6	789.1	803.6	809.0
17.5°	743.6	754.2	786.9	804.8	812.2
20°	730.0	745.9	783.7	804.8	814.4
22.5°	715.2	735.4	779.5	802.8	814.4
25°	699.6	722.6	773.2	800.5	813.3
27.5°	680.5	710.1	765.8	797.4	812.2
30°	661.5	695.3	757.3	793.1	809.0
32.5°	640.5	679.4	746.8	786.9	804.8
35°	618.3	663.8	735.4	780.6	799.6
37.5°	596.1	644.7	723.7	772.1	793.1
40°	571.9	625.7	710.1	761.6	783.7
42.5°	554.0	605.8	695.3	751.0	774.3
45°	520.5	591.0	678.3	737.4	762.7
47.5°	494.1	562.6	661.5	723.7	749.9
50°	477.3	539.3	641.6	707.8	735.4
52.5°	437.2	523.6	622.5	692.2	721.5
55°	421.3	492.1	601.5	675.1	704.7
57.5°	378.1	469.9	580.5	656.4	686.8
60°	357.0	439.2	557.2	637.3	668.9
62.5°	324.4	413.0	534.1	616.3	649.0
65°	288.5	384.6	508.8	596.1	629.9
67.5°	255.0	356.2	484.7	575.1	610.9
70°	222.3	326.6	459.4	554.0	589.9
72.5°	184.2	297.1	434.9	534.1	570.0
75°	151.8	268.6	411.9	513.1	548.9
77.5°	120.0	241.3	389.7	494.1	529.9
80°	90.7	214.9	367.6	474.2	510.8
82.5°	63.1	192.7	347.7	455.1	490.9
85°	38.9	172.8	328.6	434.9	471.9
87.5°	17.9	154.9	309.6	416.2	454.0
90°	2.0	141.3	293.9	400.3	437.2
92.5°	1.1	137.0	287.7	392.9	428.7
95°	0.0	132.8	284.6	388.6	424.4
97.5°	0.0	128.5	277.2	382.3	419.3
100°	0.0	126.5	271.8	373.0	408.8
102.5°	0.0	123.4	265.5	364.4	400.3
105°	0.0	122.2	259.3	357.0	392.0
107.5°	0.0	120.0	252.7	347.7	382.3
110°	0.0	118.0	247.6	339.1	373.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	116.0	242.2	330.9	363.3
115°	0.0	113.7	235.9	321.2	352.8
117.5°	0.0	110.6	229.7	311.8	343.4
120°	0.0	106.3	223.4	303.3	332.9
122.5°	0.0	102.1	216.9	292.8	321.2
125°	0.0	98.1	209.5	283.4	310.7
127.5°	0.0	91.5	201.3	272.9	298.2
130°	0.0	85.3	190.7	262.4	286.5
132.5°	1.1	79.0	180.2	250.7	274.9
135°	0.0	72.8	168.6	239.1	261.2
137.5°	0.0	67.4	155.8	226.6	247.6
140°	0.0	61.1	143.3	211.8	234.0
142.5°	0.0	53.7	130.8	195.9	219.2
145°	0.0	47.5	118.0	179.1	204.4
147.5°	1.1	42.1	106.3	161.2	188.5
150°	1.1	37.8	94.9	143.3	170.6
152.5°	1.1	33.8	83.3	126.5	152.7
155°	1.1	29.6	72.8	109.4	135.9
157.5°	1.1	25.3	61.1	92.7	118.0
160°	1.1	22.2	50.6	77.9	101.2
162.5°	1.1	19.0	41.2	61.1	83.3
165°	1.1	15.9	32.7	45.2	64.2
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)