

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: **4SNLED-LD5-54HL-SLW-UNV-L940-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 (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-54HL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

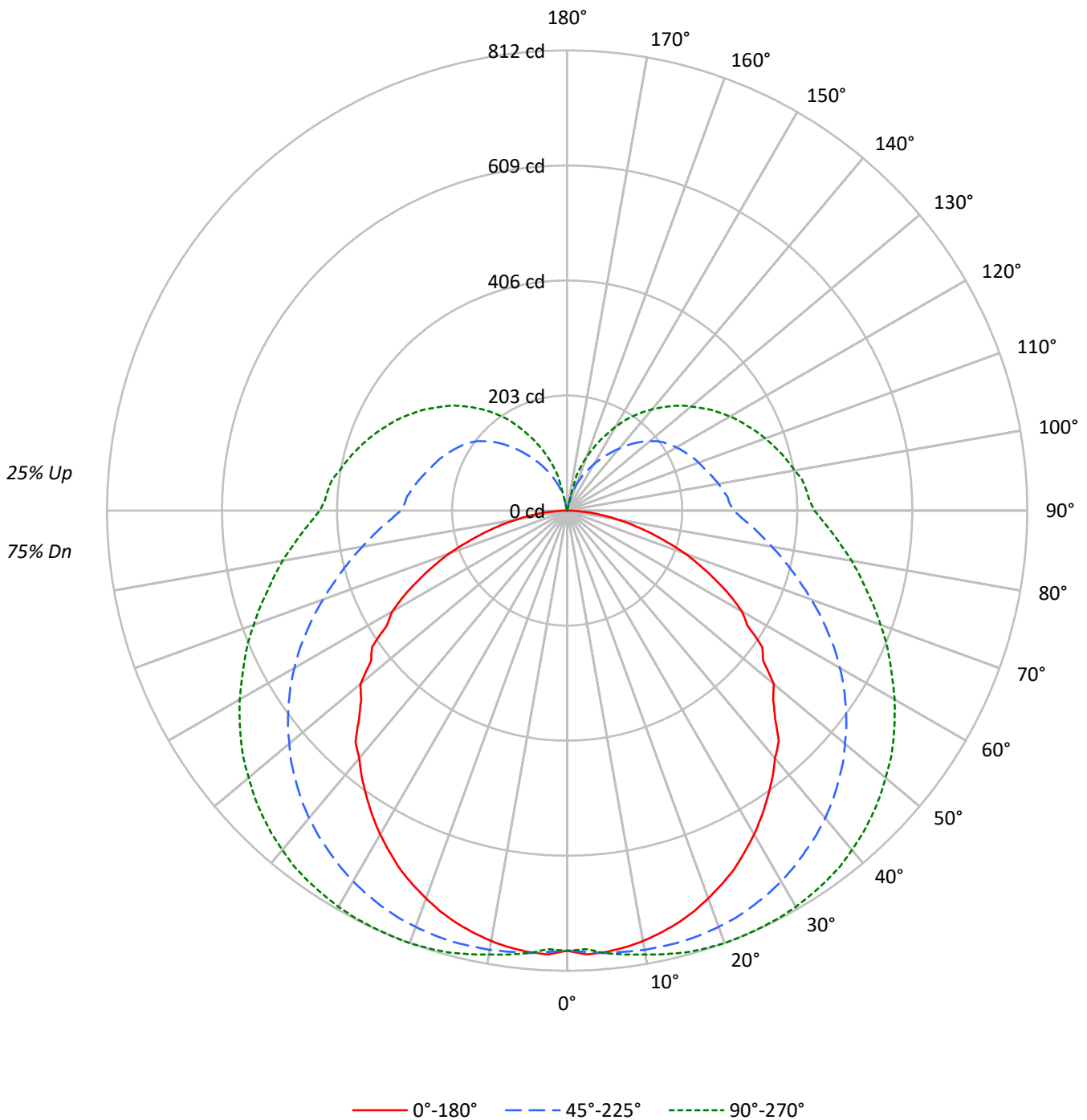
Lumens per Lamp: N/A
Luminaire Lumens: 4472.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 43
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: P#
CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L940-CD1-U

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	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°	6276	6276	6276
5°	6325	6203	6157
10°	6294	6147	6122
15°	6251	6114	6135
20°	6192	6086	6146
25°	6133	6064	6156
30°	6049	6047	6190
35°	5955	6023	6231
40°	5865	6020	6272
45°	5753	6006	6322
50°	5769	5993	6371
55°	5669	5993	6448
60°	5461	5998	6536
65°	5159	6004	6657
70°	4824	6048	6845
75°	4231	6189	7120
80°	3574	6487	7581
85°	2658	7093	8251



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.7
10°-20°	221.2	4.9
20°-30°	351.6	7.9
30°-40°	451.3	10.1
40°-50°	509.6	11.4
50°-60°	520.0	11.6
60°-70°	481.7	10.8
70°-80°	407.8	9.1
80°-90°	325.6	7.3
90°-100°	276.4	6.2
100°-110°	246.3	5.5
110°-120°	209.8	4.7
120°-130°	166.6	3.7
130°-140°	118.2	2.6
140°-150°	70.6	1.6
150°-160°	32.9	0.7
160°-170°	7.8	0.2
170°-180°	0.0	0.0
0°-30°	647.5	14.5
0°-40°	1098.8	24.6
0°-60°	2128.3	47.6
0°-90°	3343.4	74.8
90°-120°	732.5	16.4
90°-150°	1087.9	24.3
90°-180°	1129.0	25.2
0°-180°	4472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	782	776	784	784	784	74
15°	754	760	787	802	807	213
25°	698	721	771	799	811	321
35°	617	662	734	779	798	386
45°	519	590	677	736	761	403
55°	420	491	600	674	703	369
65°	288	384	508	595	628	286
75°	151	268	411	512	548	161
85°	39	172	328	434	471	42
90°	2	141	293	399	436	3
95°	0	132	284	388	424	0
105°	0	122	258	356	391	0
115°	0	114	235	320	352	0
125°	0	98	209	283	310	0
135°	0	72	168	238	261	0
145°	0	47	118	179	204	0
155°	1	29	72	109	136	1
165°	1	16	33	45	64	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.6	776.6	776.6	776.6	776.6
2.5°	783.9	775.5	779.7	778.7	774.5
5°	781.8	775.5	783.9	783.9	783.9
7.5°	777.6	773.4	785.0	789.2	790.2
10°	771.3	771.3	787.1	793.4	795.5
12.5°	762.9	766.1	787.1	796.5	801.8
15°	753.5	759.8	787.1	801.8	807.1
17.5°	741.9	752.4	785.0	802.8	810.2
20°	728.2	744.0	781.8	802.8	812.3
22.5°	713.5	733.5	777.6	800.7	812.3
25°	697.8	720.9	771.3	798.6	811.3
27.5°	678.8	708.3	764.0	795.5	810.2
30°	659.9	693.6	755.6	791.3	807.1
32.5°	638.9	677.8	745.1	785.0	802.8
35°	616.8	662.0	733.5	778.7	797.6
37.5°	594.8	643.1	721.9	770.3	791.3
40°	570.6	624.2	708.3	759.8	781.8
42.5°	552.7	604.2	693.6	749.3	772.4
45°	519.1	589.5	676.7	735.6	760.8
47.5°	492.8	561.2	659.9	721.9	748.2
50°	476.0	538.0	640.0	706.2	733.5
52.5°	436.1	522.3	621.1	690.4	719.8
55°	420.3	490.7	600.0	673.6	703.0
57.5°	377.3	468.7	579.0	654.7	685.2
60°	356.2	438.2	555.9	635.8	667.3
62.5°	323.7	411.9	532.8	614.7	647.3
65°	287.9	383.6	507.6	594.8	628.4
67.5°	254.3	355.2	483.4	573.8	609.5
70°	221.7	325.8	458.2	552.7	588.5
72.5°	183.9	296.3	434.0	532.8	568.5
75°	151.3	268.0	410.9	511.8	547.5
77.5°	119.8	240.6	388.8	492.8	528.6
80°	90.4	214.4	366.7	472.9	509.7
82.5°	63.1	192.3	346.8	454.0	489.7
85°	38.9	172.3	327.9	434.0	470.8
87.5°	17.9	154.5	308.9	415.1	452.9
90°	2.1	140.8	293.2	399.3	436.1
92.5°	1.1	136.6	286.9	392.0	427.7
95°	0.0	132.4	283.7	387.8	423.5
97.5°	0.0	128.2	276.4	381.5	418.2
100°	0.0	126.1	271.1	372.0	407.7
102.5°	0.0	122.9	264.8	363.6	399.3
105°	0.0	121.9	258.5	356.2	390.9
107.5°	0.0	119.8	252.2	346.8	381.5
110°	0.0	117.7	246.9	338.4	372.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	115.6	241.7	330.0	362.5
115°	0.0	113.5	235.4	320.5	352.0
117.5°	0.0	110.3	229.1	311.1	342.6
120°	0.0	106.1	222.8	302.6	332.1
122.5°	0.0	101.9	216.5	292.1	320.5
125°	0.0	97.7	209.1	282.7	310.0
127.5°	0.0	91.4	200.7	272.2	297.4
130°	0.0	85.1	190.2	261.7	285.8
132.5°	1.1	78.8	179.7	250.1	274.3
135°	0.0	72.5	168.1	238.5	260.6
137.5°	0.0	67.3	155.5	225.9	246.9
140°	0.0	60.9	142.9	211.2	233.3
142.5°	0.0	53.6	130.3	195.5	218.6
145°	0.0	47.3	117.7	178.6	203.9
147.5°	1.1	42.0	106.1	160.8	188.1
150°	1.1	37.8	94.6	142.9	170.2
152.5°	1.1	33.6	83.0	126.1	152.4
155°	1.1	29.4	72.5	109.3	135.6
157.5°	1.1	25.2	60.9	92.5	117.7
160°	1.1	22.1	50.4	77.8	100.9
162.5°	1.1	18.9	41.0	60.9	83.0
165°	1.1	15.8	32.6	45.2	64.1
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)