

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-LD5-60HL-SLC-UNV-L950-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-60HL-SLC-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

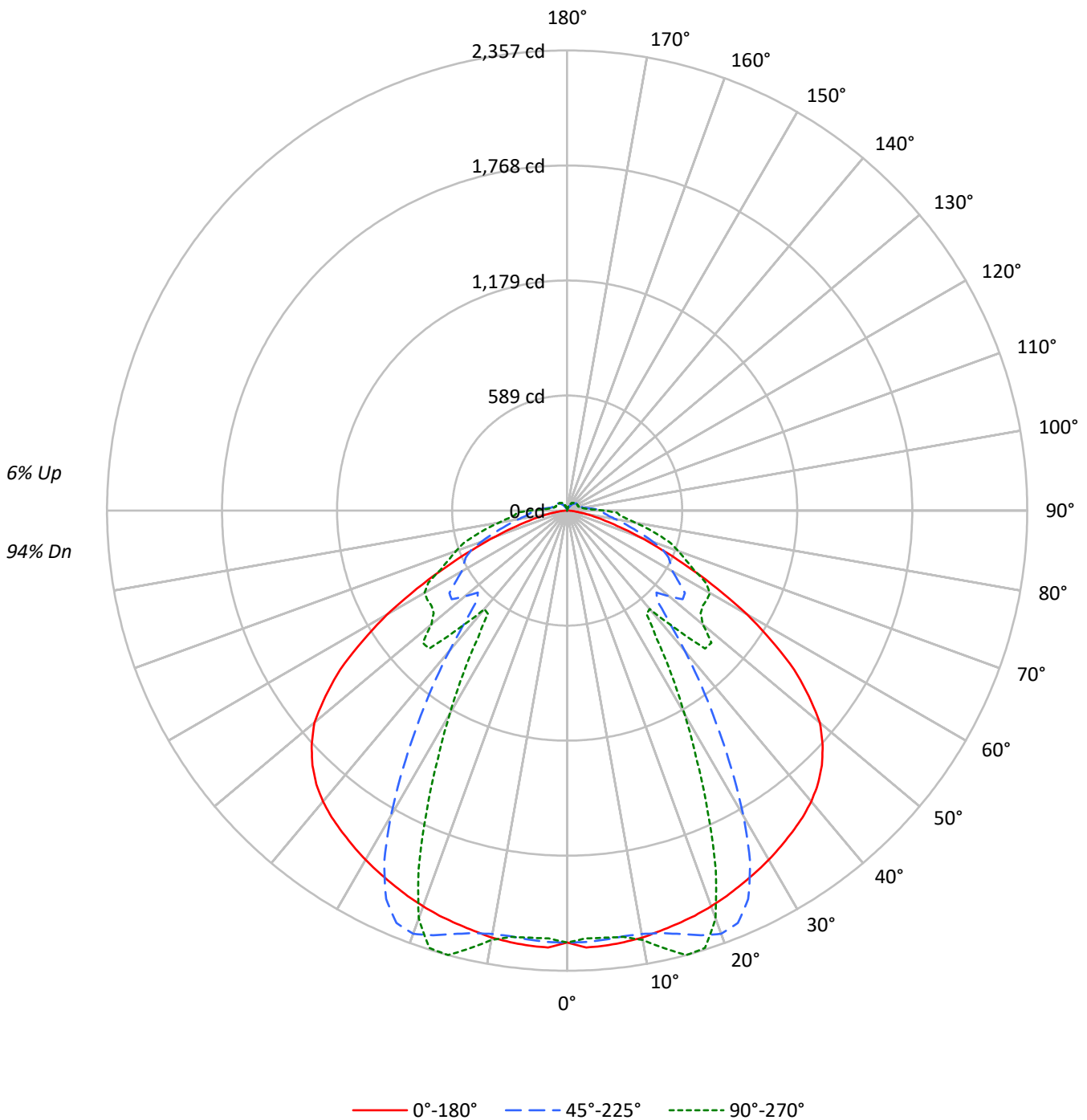
Lumens per Lamp: N/A  
Luminaire Lumens: 5684.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17881	17881	17881
5°	18098	17462	17248
10°	18122	17197	17188
15°	18171	17439	17914
20°	18340	17958	16815
25°	18568	17258	12948
30°	18935	14454	9210
35°	19404	10947	6236
40°	19997	7958	5280
45°	20451	5773	8302
50°	20480	6392	7878
55°	19142	7357	7780
60°	16310	6732	8269
65°	12270	6789	7565
70°	8610	6180	7040
75°	5643	5178	6318
80°	3601	4437	5259
85°	1940	4216	4721



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	3.7
10°-20°	635.7	11.2
20°-30°	923.5	16.2
30°-40°	882.4	15.5
40°-50°	807.1	14.2
50°-60°	745.2	13.1
60°-70°	592.0	10.4
70°-80°	365.4	6.4
80°-90°	199.0	3.5
90°-100°	100.6	1.8
100°-110°	63.2	1.1
110°-120°	53.5	0.9
120°-130°	43.7	0.8
130°-140°	31.4	0.6
140°-150°	19.3	0.3
150°-160°	9.2	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1769.7	31.1
0°-40°	2652.1	46.7
0°-60°	4204.5	74.0
0°-90°	5360.7	94.3
90°-120°	217.3	3.8
90°-150°	311.7	5.5
90°-180°	323.0	5.7
0°-180°	5684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2237	2203	2207	2195	2196	213
15°	2190	2161	2245	2328	2357	620
25°	2113	2154	2195	1858	1706	977
35°	2010	1978	1333	918	798	1260
45°	1845	1287	650	830	999	1418
55°	1419	660	737	792	848	1250
65°	685	428	574	697	714	692
75°	202	228	344	456	486	229
85°	28	97	195	265	269	36
90°	1	72	174	207	191	1
95°	0	68	120	107	101	0
105°	0	61	74	68	67	0
115°	0	50	72	64	61	0
125°	1	40	64	62	59	1
135°	1	28	51	56	54	1
145°	1	18	35	45	48	1
155°	2	11	22	28	34	1
165°	2	6	11	14	19	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°	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2240.2	2207.8	2211.7	2204.9	2193.1
5°	2237.2	2202.9	2206.8	2195.1	2196.1
7.5°	2229.4	2194.1	2199.0	2197.1	2202.0
10°	2220.6	2183.3	2202.0	2218.6	2233.3
12.5°	2204.9	2171.6	2216.6	2265.6	2296.0
15°	2190.2	2160.8	2245.1	2328.3	2356.7
17.5°	2175.5	2156.9	2280.3	2352.8	2348.9
20°	2156.9	2154.9	2306.8	2282.3	2222.5
22.5°	2136.3	2155.9	2286.2	2106.9	1989.4
25°	2112.8	2154.0	2195.1	1858.1	1706.3
27.5°	2089.3	2145.1	2029.6	1585.8	1436.0
30°	2065.8	2121.6	1806.2	1337.0	1200.9
32.5°	2038.4	2070.7	1563.3	1116.6	991.3
35°	2010.0	1977.6	1333.1	917.8	798.3
37.5°	1980.6	1843.4	1126.4	743.5	667.1
40°	1945.3	1675.0	936.4	637.7	658.2
42.5°	1901.2	1484.9	768.9	669.0	812.0
45°	1845.4	1287.1	650.4	829.7	999.1
47.5°	1774.9	1097.1	621.0	950.1	1003.0
50°	1689.7	922.7	682.7	910.9	907.0
52.5°	1560.4	777.7	745.4	830.6	862.0
55°	1419.3	660.2	736.6	792.4	848.3
57.5°	1241.0	580.9	675.9	784.6	849.2
60°	1063.8	528.0	624.0	783.6	844.3
62.5°	867.9	480.0	597.5	765.0	801.2
65°	684.7	428.0	574.0	697.4	714.1
67.5°	525.0	375.2	532.9	622.0	655.3
70°	395.7	323.2	468.2	564.2	605.3
72.5°	285.0	274.3	401.6	513.3	556.4
75°	201.8	228.2	343.8	455.5	485.8
77.5°	139.1	186.1	294.8	391.8	416.3
80°	91.1	148.9	250.8	337.0	353.6
82.5°	54.9	119.5	217.5	294.8	303.6
85°	28.4	97.0	194.9	265.4	269.4
87.5°	8.8	81.3	182.2	251.7	256.6
90°	1.0	72.5	174.4	206.7	191.0
92.5°	0.0	68.6	150.8	141.1	126.4
95°	0.0	67.6	120.5	106.8	100.9
97.5°	0.0	65.6	98.9	89.1	86.2
100°	0.0	63.7	85.2	78.4	77.4
102.5°	0.0	62.7	77.4	71.5	70.5
105°	0.0	60.7	74.4	67.6	66.6
107.5°	0.0	57.8	72.5	65.6	63.7
110°	0.0	54.9	72.5	64.6	61.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.9	72.5	63.7	60.7
115°	0.0	50.0	71.5	63.7	60.7
117.5°	1.0	48.0	70.5	63.7	60.7
120°	0.0	46.0	68.6	63.7	59.8
122.5°	1.0	43.1	66.6	62.7	59.8
125°	1.0	40.2	63.7	61.7	58.8
127.5°	1.0	37.2	60.7	59.8	56.8
130°	1.0	34.3	57.8	58.8	55.8
132.5°	1.0	31.3	53.9	56.8	54.9
135°	1.0	28.4	50.9	55.8	53.9
137.5°	1.0	25.5	47.0	52.9	52.9
140°	1.0	22.5	43.1	50.9	51.9
142.5°	1.0	20.6	39.2	49.0	50.0
145°	1.0	17.6	35.3	45.1	48.0
147.5°	1.0	15.7	31.3	41.1	45.1
150°	1.0	13.7	27.4	37.2	41.1
152.5°	1.0	11.8	24.5	32.3	38.2
155°	2.0	10.8	21.5	28.4	34.3
157.5°	2.0	8.8	17.6	24.5	29.4
160°	2.0	7.8	15.7	20.6	26.4
162.5°	2.0	6.9	12.7	17.6	22.5
165°	2.0	5.9	10.8	13.7	18.6
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)