

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: P218603

Luminaire Tested: **4SNLED-LD5-45HL-RW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35747)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-45HL-RW-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4270.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 0.85 / 0.95  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

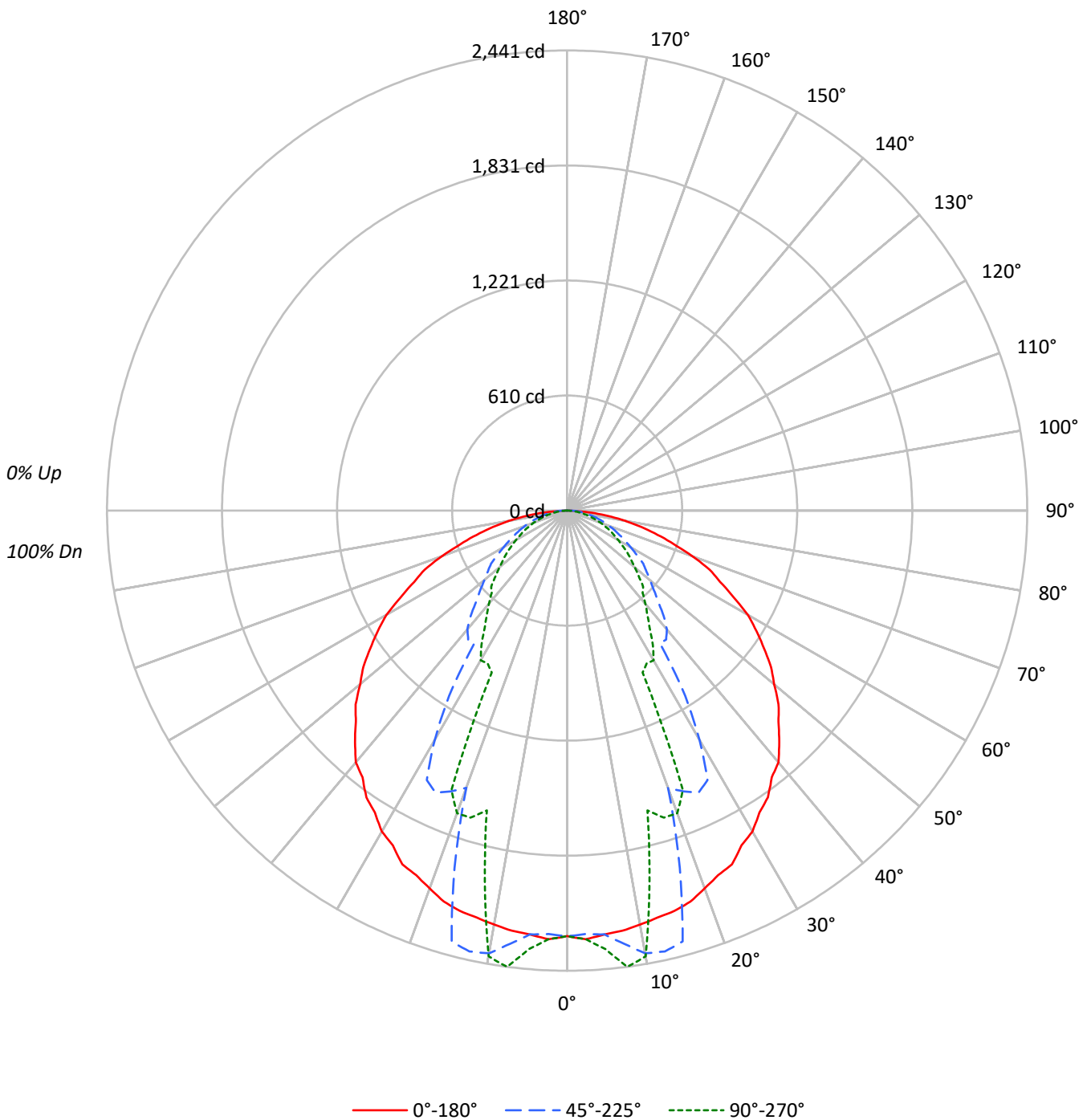
Input Watts (W): 37  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73					73			
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

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

	0°	45°	90°
0°	36375	36375	36375
5°	36381	34293	34728
10°	36223	34535	33398
15°	36276	32972	21659
20°	36020	21171	21473
25°	36102	21846	11486
30°	35710	18358	10822
35°	35476	11154	8831
40°	35425	10700	7392
45°	34674	8941	6497
50°	34220	7646	5362
55°	33803	6747	4521
60°	33258	5515	3704
65°	31352	4555	3035
70°	29814	3688	2379
75°	26825	2861	1693
80°	23222	2050	1095
85°	16195	1301	474



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.3	5.2
10°-20°	590.1	13.8
20°-30°	763.5	17.9
30°-40°	725.0	17.0
40°-50°	697.9	16.3
50°-60°	554.5	13.0
60°-70°	403.5	9.4
70°-80°	234.7	5.5
80°-90°	80.5	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1573.9	36.9
0°-40°	2298.9	53.8
0°-60°	3551.3	83.2
0°-90°	4270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2257	2252	2257	2310	2335	215
15°	2199	2302	2367	1848	1646	620
25°	2070	2196	1651	1333	947	948
35°	1856	1429	860	798	763	1158
45°	1585	1348	681	577	570	1228
55°	1275	767	493	401	391	1141
65°	896	475	308	259	250	895
75°	498	250	172	141	129	528
85°	129	105	66	44	32	151
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2257.4	2257.4	2257.4	2257.4	2257.4
2.5°	2276.2	2258.7	2248.9	2250.2	2275.6
5°	2257.4	2252.2	2256.7	2310.0	2334.8
7.5°	2247.6	2236.6	2317.2	2408.9	2440.7
10°	2230.1	2260.6	2384.8	2422.5	2401.1
12.5°	2211.9	2278.8	2395.2	2150.1	2015.5
15°	2198.9	2302.2	2366.6	1847.8	1646.2
17.5°	2174.8	2317.2	1988.2	1641.0	1708.0
20°	2132.5	2310.0	1565.6	1711.2	1708.0
22.5°	2093.5	2269.7	1611.8	1678.1	1603.3
25°	2070.1	2195.6	1650.8	1332.8	947.3
27.5°	2002.5	2014.2	1612.4	925.2	914.1
30°	1965.5	1837.4	1406.3	908.3	917.4
32.5°	1899.1	1633.9	1165.1	875.1	845.9
35°	1856.2	1429.1	859.5	798.4	763.3
37.5°	1783.4	1439.5	862.1	732.1	698.9
40°	1743.1	1448.6	823.1	668.4	646.3
42.5°	1665.7	1414.1	758.1	616.4	592.3
45°	1585.1	1347.8	681.4	577.3	570.2
47.5°	1521.4	1161.2	624.8	540.3	514.3
50°	1433.0	923.2	572.8	490.9	468.8
52.5°	1363.4	786.1	530.5	448.0	427.2
55°	1275.0	767.2	492.8	401.2	390.8
57.5°	1191.8	702.2	436.9	364.1	347.8
60°	1106.6	621.6	389.5	328.3	314.0
62.5°	995.4	537.7	347.8	291.9	278.3
65°	895.9	474.6	308.2	259.4	250.3
67.5°	818.6	425.9	272.4	227.6	215.2
70°	705.4	371.2	236.7	197.0	189.2
72.5°	593.6	303.0	203.5	169.7	155.4
75°	498.0	250.3	172.3	141.1	128.7
77.5°	404.4	209.4	143.0	115.7	102.7
80°	309.5	170.3	114.4	90.4	78.7
82.5°	219.1	135.9	89.7	65.7	55.3
85°	129.4	104.7	66.3	43.6	31.9
87.5°	51.4	78.7	43.6	21.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)