

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: **4ILED-LD5-9-N-UNV-L850-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-9-N-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

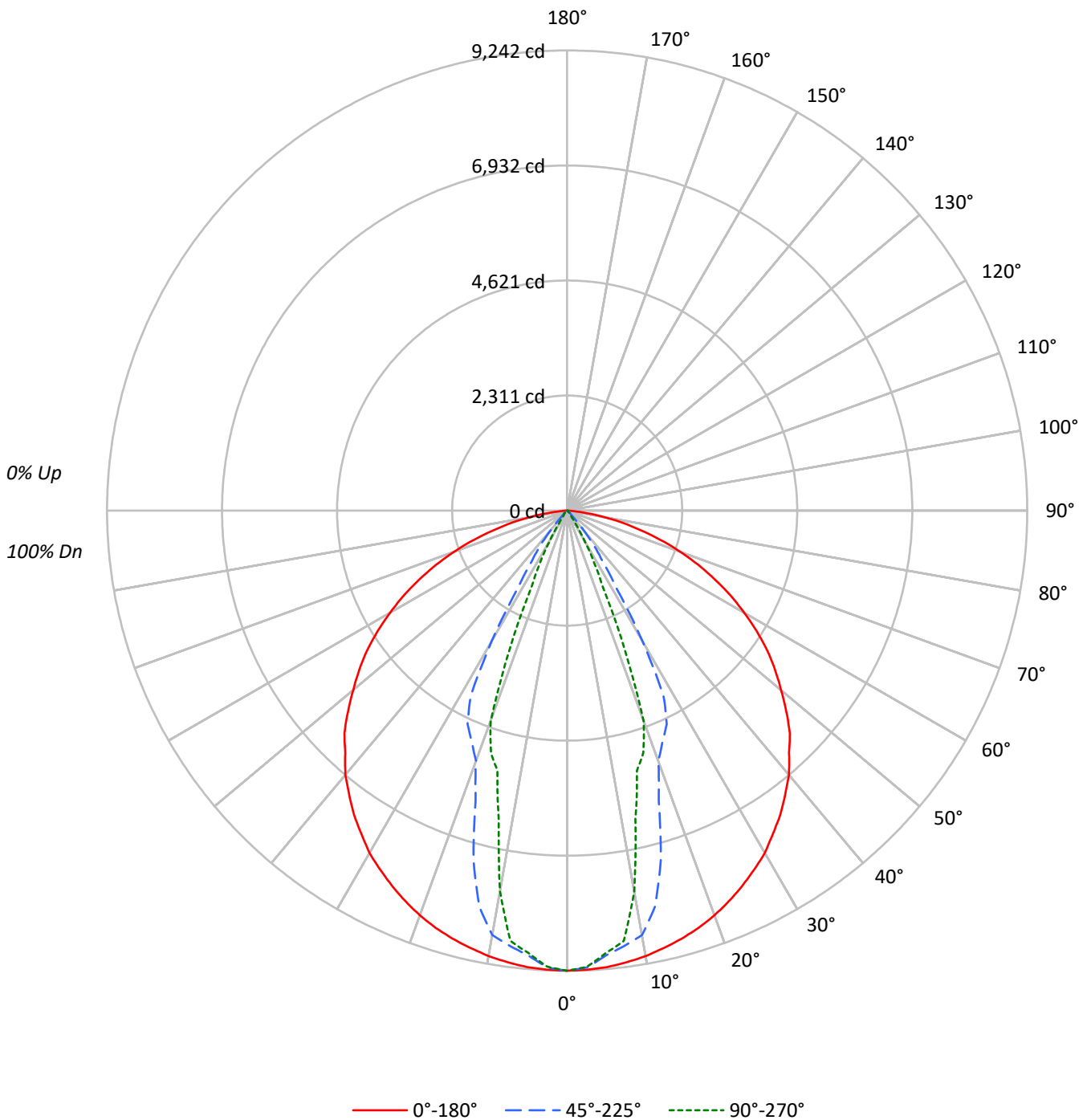
Lumens per Lamp: N/A
Luminaire Lumens: 9296.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V):
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	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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81				81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48				48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27132	27132	27132
5°	27061	26204	26036
10°	26964	25375	22688
15°	26867	21531	15976
20°	26781	16162	13507
25°	26626	14685	5245
30°	26530	9717	2235
35°	26278	4135	494
40°	26006	1822	352
45°	25624	436	163
50°	24877	268	88
55°	24270	170	90
60°	23113	154	93
65°	21583	159	99
70°	19402	168	106
75°	15933	195	117
80°	11305	224	107
85°	3620	234	130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.0	9.1
10°-20°	2026.4	21.8
20°-30°	2215.6	23.8
30°-40°	1603.4	17.2
40°-50°	1196.6	12.9
50°-60°	698.7	7.5
60°-70°	434.4	4.7
70°-80°	226.5	2.4
80°-90°	45.3	0.5
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°	5091.0	54.8
0°-40°	6694.4	72.0
0°-60°	8589.8	92.4
0°-90°	9296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9242	9242	9242	9242	9242	
5°	9203	9170	8966	8938	8920	875
15°	8899	8587	7264	5681	5410	2513
25°	8316	7060	4734	2468	1702	3836
35°	7461	4551	1230	266	148	4665
45°	6326	2974	115	78	44	4858
55°	4911	576	38	44	20	4373
65°	3274	48	28	26	18	3237
75°	1536	29	23	19	14	1646
85°	138	19	14	13	9	262
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9242.5	9242.5	9242.5	9242.5	9242.5
2.5°	9227.9	9239.6	9184.3	9184.3	9168.3
5°	9203.2	9169.8	8966.2	8938.5	8919.6
7.5°	9149.4	9018.5	8819.3	8782.9	8720.4
10°	9085.4	8855.6	8654.9	8137.2	7757.6
12.5°	8995.2	8720.4	8151.7	6869.0	6342.5
15°	8899.3	8586.6	7264.5	5680.7	5410.2
17.5°	8785.8	8409.1	6111.2	5209.5	5093.2
20°	8650.6	8121.2	5352.1	4885.2	4495.4
22.5°	8492.0	7674.7	5008.8	4060.6	3009.1
25°	8316.1	7059.5	4734.0	2468.1	1701.6
27.5°	8131.4	6332.3	4190.0	1499.4	1162.0
30°	7939.4	5584.8	3023.6	1074.8	701.0
32.5°	7693.6	4973.9	1834.0	605.0	312.7
35°	7460.9	4550.7	1230.4	266.1	148.3
37.5°	7191.8	4258.4	898.8	141.1	104.7
40°	6928.6	3973.3	513.4	106.2	100.4
42.5°	6597.0	3618.5	216.7	100.4	71.3
45°	6326.5	2974.2	114.9	78.5	43.6
47.5°	5968.7	2036.1	77.1	61.1	27.6
50°	5609.5	1258.0	65.4	48.0	21.8
52.5°	5267.7	833.4	48.0	45.1	20.4
55°	4911.4	575.9	37.8	43.6	20.4
57.5°	4515.8	283.6	32.0	42.2	18.9
60°	4107.1	110.5	30.5	40.7	18.9
62.5°	3702.8	61.1	29.1	33.5	17.5
65°	3273.8	48.0	27.6	26.2	17.5
67.5°	2849.1	39.3	26.2	24.7	17.5
70°	2415.7	34.9	24.7	21.8	16.0
72.5°	1973.6	32.0	23.3	21.8	14.5
75°	1535.8	29.1	23.3	18.9	14.5
77.5°	1148.9	27.6	21.8	18.9	11.6
80°	763.5	24.7	20.4	16.0	10.2
82.5°	421.8	23.3	17.5	14.5	10.2
85°	138.2	18.9	14.5	13.1	8.7
87.5°	21.8	13.1	11.6	11.6	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)