

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: **8ILED-LD5-10-N-UNV-L840-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: 8ILED-LD5-10-N-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

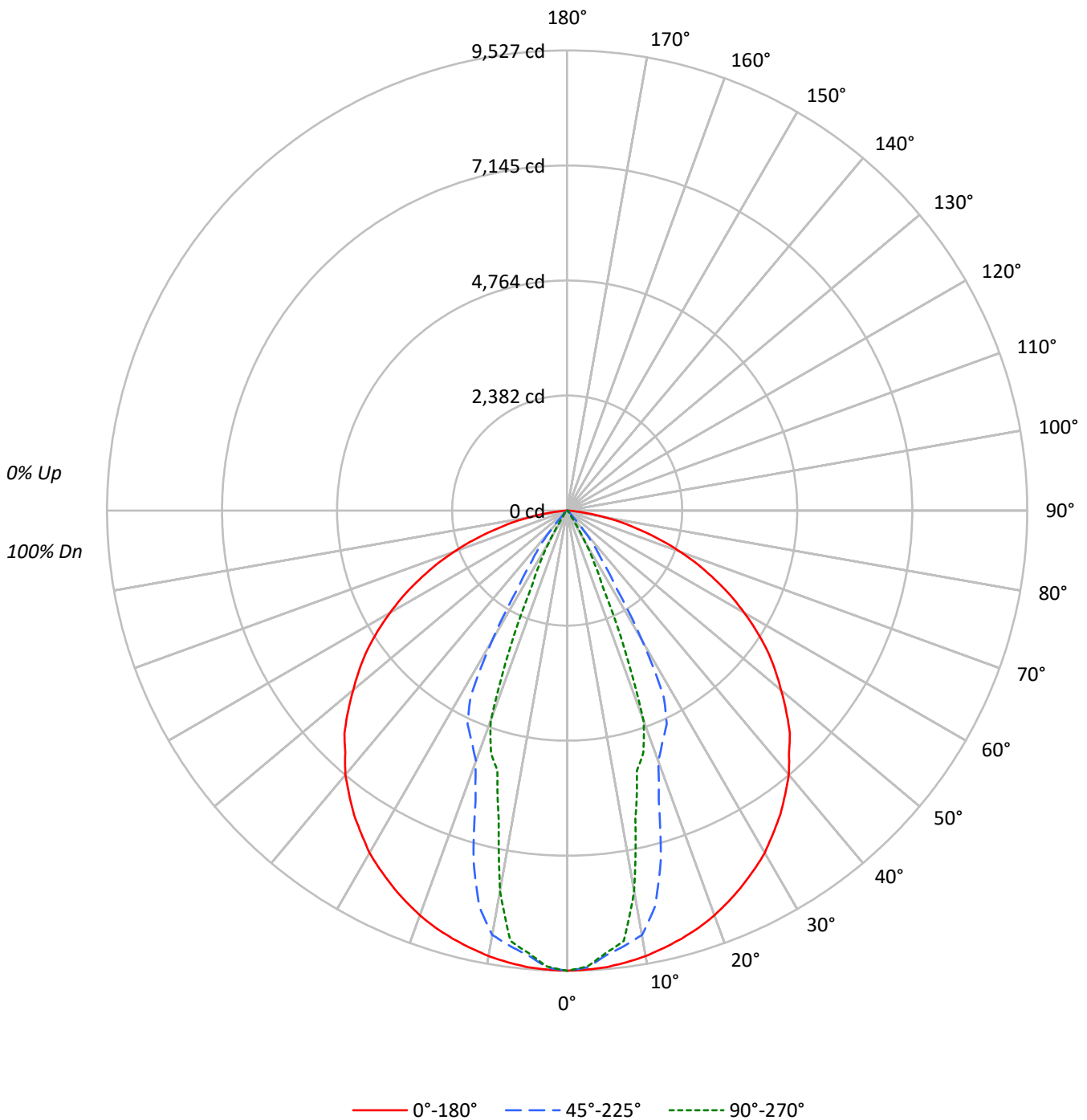
Lumens per Lamp: N/A
Luminaire Lumens: 9582.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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	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°	13983	13983	13983
5°	13962	13516	13418
10°	13927	13098	11693
15°	13893	11123	8234
20°	13865	8356	6961
25°	13802	7598	2703
30°	13771	5032	1152
35°	13661	2143	255
40°	13542	946	182
45°	13369	226	84
50°	13010	140	45
55°	12728	89	46
60°	12165	80	48
65°	11414	84	51
70°	10331	89	54
75°	8578	103	60
80°	6212	119	55
85°	2098	127	67



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.1	9.1
10°-20°	2088.7	21.8
20°-30°	2283.8	23.8
30°-40°	1652.8	17.2
40°-50°	1233.5	12.9
50°-60°	720.2	7.5
60°-70°	447.8	4.7
70°-80°	233.5	2.4
80°-90°	46.7	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°	5247.6	54.8
0°-40°	6900.4	72.0
0°-60°	8854.1	92.4
0°-90°	9582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9527	9527	9527	9527	9527	
5°	9486	9452	9242	9214	9194	901
15°	9173	8851	7488	5856	5577	2590
25°	8572	7277	4880	2544	1754	3954
35°	7690	4691	1268	274	153	4808
45°	6521	3066	118	81	45	5007
55°	5062	594	39	45	21	4507
65°	3374	50	28	27	18	3336
75°	1583	30	24	20	15	1697
85°	142	20	15	14	9	270
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9526.8	9526.8	9526.8	9526.8	9526.8
2.5°	9511.8	9523.8	9466.9	9466.9	9450.4
5°	9486.4	9451.9	9242.0	9213.5	9194.0
7.5°	9430.9	9296.0	9090.6	9053.1	8988.7
10°	9364.9	9128.1	8921.2	8387.5	7996.2
12.5°	9272.0	8988.7	8402.5	7080.3	6537.6
15°	9173.0	8850.7	7488.1	5855.5	5576.7
17.5°	9056.1	8667.8	6299.3	5369.8	5249.9
20°	8916.7	8371.0	5516.7	5035.5	4633.7
22.5°	8753.3	7910.8	5162.9	4185.5	3101.7
25°	8571.9	7276.7	4879.6	2544.0	1754.0
27.5°	8381.5	6527.1	4318.9	1545.6	1197.8
30°	8183.6	5756.6	3116.6	1107.8	722.6
32.5°	7930.3	5127.0	1890.4	623.6	322.3
35°	7690.4	4690.7	1268.2	274.3	152.9
37.5°	7413.1	4389.4	926.4	145.4	107.9
40°	7141.8	4095.6	529.2	109.4	103.4
42.5°	6800.0	3729.8	223.4	103.4	73.5
45°	6521.1	3065.7	118.4	81.0	45.0
47.5°	6152.3	2098.8	79.5	63.0	28.5
50°	5782.1	1296.7	67.5	49.5	22.5
52.5°	5429.8	859.0	49.5	46.5	21.0
55°	5062.5	593.6	39.0	45.0	21.0
57.5°	4654.7	292.3	33.0	43.5	19.5
60°	4233.5	113.9	31.5	42.0	19.5
62.5°	3816.7	63.0	30.0	34.5	18.0
65°	3374.5	49.5	28.5	27.0	18.0
67.5°	2936.8	40.5	27.0	25.5	18.0
70°	2490.0	36.0	25.5	22.5	16.5
72.5°	2034.3	33.0	24.0	22.5	15.0
75°	1583.1	30.0	24.0	19.5	15.0
77.5°	1184.3	28.5	22.5	19.5	12.0
80°	787.0	25.5	21.0	16.5	10.5
82.5°	434.7	24.0	18.0	15.0	10.5
85°	142.4	19.5	15.0	13.5	9.0
87.5°	22.5	13.5	12.0	12.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)