

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-TWB-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: 4ILED-LD5-9-N-TWB-UNV-L840-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

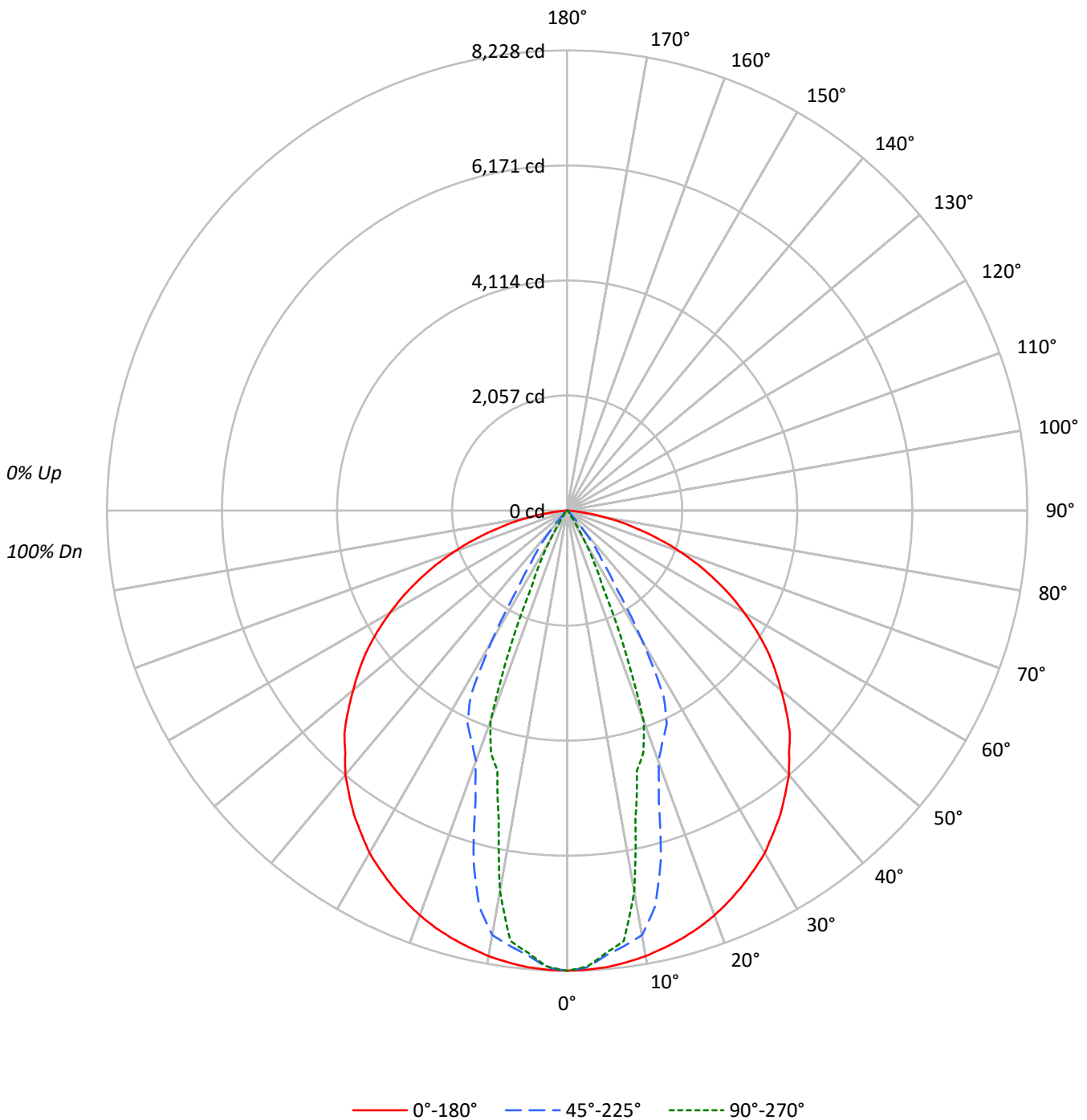
Lumens per Lamp: N/A  
Luminaire Lumens: 8276.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
Input Voltage (V):  
Input Current (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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

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

	0°	45°	90°
0°	24155	24155	24155
5°	24092	23329	23179
10°	24005	22591	20199
15°	23919	19169	14223
20°	23842	14389	12025
25°	23705	13073	4669
30°	23619	8651	1990
35°	23394	3681	440
40°	23153	1623	314
45°	22813	388	145
50°	22148	239	78
55°	21607	152	80
60°	20577	137	83
65°	19215	142	87
70°	17273	150	94
75°	14185	173	104
80°	10065	199	95
85°	3222	209	117



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.9	9.1
10°-20°	1804.0	21.8
20°-30°	1972.5	23.8
30°-40°	1427.5	17.2
40°-50°	1065.3	12.9
50°-60°	622.1	7.5
60°-70°	386.7	4.7
70°-80°	201.7	2.4
80°-90°	40.3	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°	4532.4	54.8
0°-40°	5959.9	72.0
0°-60°	7647.3	92.4
0°-90°	8276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8276.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8228	8228	8228	8228	8228	
5°	8193	8164	7982	7958	7941	779
15°	7923	7644	6468	5057	4817	2237
25°	7404	6285	4214	2197	1515	3415
35°	6642	4051	1095	237	132	4153
45°	5632	2648	102	70	39	4325
55°	4372	513	34	39	18	3893
65°	2915	43	25	23	16	2882
75°	1367	26	21	17	13	1465
85°	123	17	13	12	8	233
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8228.4	8228.4	8228.4	8228.4	8228.4
2.5°	8215.4	8225.8	8176.6	8176.6	8162.3
5°	8193.4	8163.6	7982.3	7957.7	7940.9
7.5°	8145.5	8029.0	7851.6	7819.2	7763.5
10°	8088.5	7883.9	7705.3	7244.3	6906.4
12.5°	8008.2	7763.5	7257.3	6115.3	5646.6
15°	7922.8	7644.4	6467.5	5057.4	4816.6
17.5°	7821.8	7486.4	5440.7	4637.9	4534.3
20°	7701.4	7230.1	4764.8	4349.2	4002.2
22.5°	7560.2	6832.6	4459.2	3615.0	2678.9
25°	7403.6	6284.9	4214.5	2197.2	1514.9
27.5°	7239.1	5637.5	3730.3	1334.9	1034.5
30°	7068.2	4972.0	2691.9	956.8	624.1
32.5°	6849.4	4428.2	1632.7	538.6	278.4
35°	6642.2	4051.4	1095.4	236.9	132.1
37.5°	6402.7	3791.1	800.2	125.6	93.2
40°	6168.4	3537.4	457.1	94.5	89.3
42.5°	5873.1	3221.4	192.9	89.3	63.4
45°	5632.3	2647.8	102.3	69.9	38.8
47.5°	5313.8	1812.7	68.6	54.4	24.6
50°	4994.0	1120.0	58.3	42.7	19.4
52.5°	4689.7	741.9	42.7	40.1	18.1
55°	4372.5	512.7	33.7	38.8	18.1
57.5°	4020.3	252.5	28.5	37.5	16.8
60°	3656.5	98.4	27.2	36.3	16.8
62.5°	3296.5	54.4	25.9	29.8	15.5
65°	2914.6	42.7	24.6	23.3	15.5
67.5°	2536.5	35.0	23.3	22.0	15.5
70°	2150.6	31.1	22.0	19.4	14.2
72.5°	1757.0	28.5	20.7	19.4	12.9
75°	1367.3	25.9	20.7	16.8	12.9
77.5°	1022.9	24.6	19.4	16.8	10.4
80°	679.8	22.0	18.1	14.2	9.1
82.5°	375.5	20.7	15.5	12.9	9.1
85°	123.0	16.8	12.9	11.7	7.8
87.5°	19.4	11.7	10.4	10.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)