

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-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-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8594.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

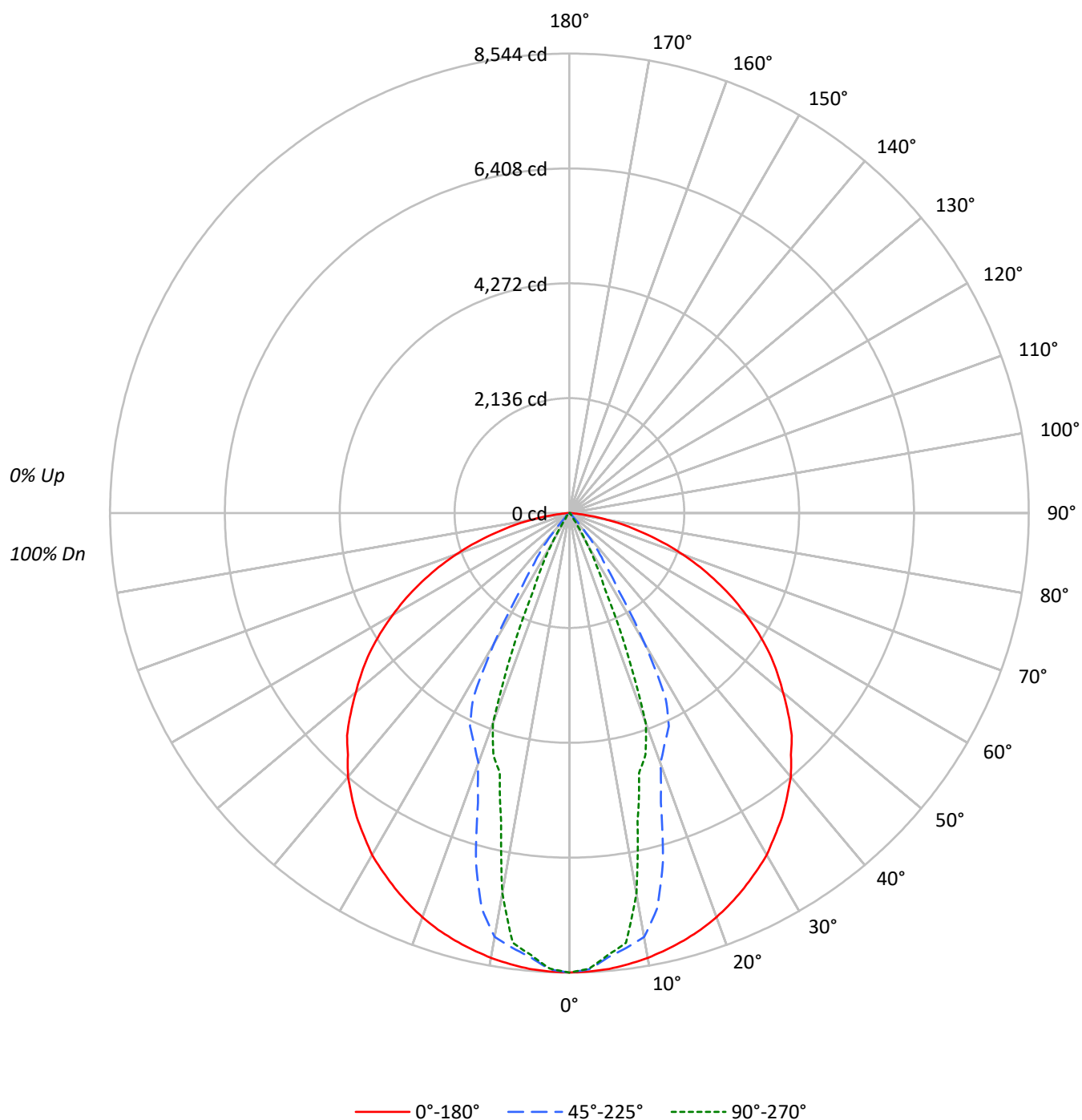
Input Watts (W): 65.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
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°	25083	25083	25083
5°	25017	24226	24070
10°	24928	23459	20975
15°	24837	19905	14769
20°	24758	14942	12488
25°	24615	13576	4849
30°	24526	8984	2067
35°	24293	3823	456
40°	24042	1685	326
45°	23689	403	151
50°	22999	248	82
55°	22438	158	83
60°	21368	142	86
65°	19954	147	91
70°	17937	156	98
75°	14730	180	108
80°	10452	207	98
85°	3345	217	121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.9	9.1
10°-20°	1873.3	21.8
20°-30°	2048.3	23.8
30°-40°	1482.4	17.2
40°-50°	1106.3	12.9
50°-60°	646.0	7.5
60°-70°	401.6	4.7
70°-80°	209.5	2.4
80°-90°	41.9	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°	4706.5	54.8
0°-40°	6188.9	72.0
0°-60°	7941.1	92.4
0°-90°	8594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8544	8544	8544	8544	8544	
5°	8508	8477	8289	8264	8246	808
15°	8227	7938	6716	5252	5002	2323
25°	7688	6526	4376	2282	1573	3546
35°	6898	4207	1138	246	137	4312
45°	5849	2750	106	73	40	4491
55°	4540	532	35	40	19	4043
65°	3027	44	26	24	16	2992
75°	1420	27	22	18	13	1522
85°	128	18	13	12	8	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8544.5	8544.5	8544.5	8544.5	8544.5
2.5°	8531.1	8541.8	8490.7	8490.7	8476.0
5°	8508.2	8477.3	8289.1	8263.5	8246.0
7.5°	8458.5	8337.5	8153.3	8119.7	8061.8
10°	8399.3	8186.9	8001.3	7522.7	7171.8
12.5°	8316.0	8061.8	7536.1	6350.2	5863.5
15°	8227.2	7938.1	6716.0	5251.8	5001.7
17.5°	8122.3	7774.1	5649.7	4816.1	4708.6
20°	7997.3	7507.9	4947.9	4516.3	4156.0
22.5°	7850.7	7095.1	4630.6	3753.9	2781.8
25°	7688.1	6526.4	4376.5	2281.7	1573.1
27.5°	7517.3	5854.1	3873.6	1386.2	1074.3
30°	7339.8	5163.0	2795.3	993.6	648.1
32.5°	7112.6	4598.3	1695.5	559.3	289.1
35°	6897.5	4207.1	1137.5	246.1	137.1
37.5°	6648.7	3936.8	830.9	130.4	96.8
40°	6405.4	3673.3	474.6	98.2	92.8
42.5°	6098.8	3345.2	200.3	92.8	65.9
45°	5848.7	2749.6	106.2	72.6	40.3
47.5°	5518.0	1882.4	71.3	56.5	25.5
50°	5185.9	1163.0	60.5	44.4	20.2
52.5°	4869.9	770.4	44.4	41.7	18.8
55°	4540.5	532.4	35.0	40.3	18.8
57.5°	4174.8	262.2	29.6	39.0	17.5
60°	3797.0	102.2	28.2	37.6	17.5
62.5°	3423.2	56.5	26.9	30.9	16.1
65°	3026.6	44.4	25.5	24.2	16.1
67.5°	2633.9	36.3	24.2	22.9	16.1
70°	2233.3	32.3	22.9	20.2	14.8
72.5°	1824.5	29.6	21.5	20.2	13.4
75°	1419.8	26.9	21.5	17.5	13.4
77.5°	1062.2	25.5	20.2	17.5	10.8
80°	705.9	22.9	18.8	14.8	9.4
82.5°	389.9	21.5	16.1	13.4	9.4
85°	127.7	17.5	13.4	12.1	8.1
87.5°	20.2	12.1	10.8	10.8	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)