

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-LD5-7-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-LD5-7-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

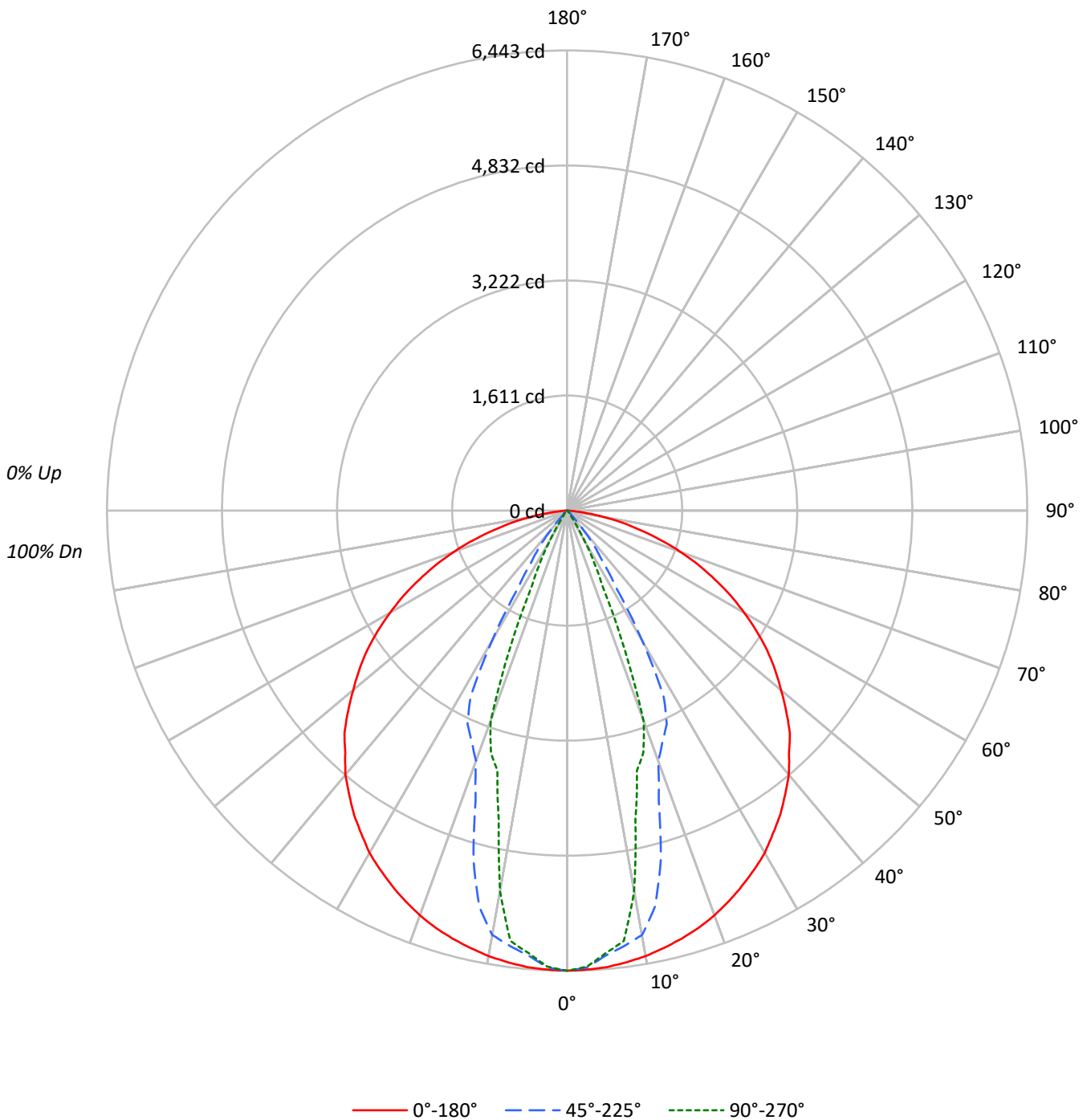
Lumens per Lamp: N/A
Luminaire Lumens: 6480.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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	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°	18913	18913	18913
5°	18864	18266	18149
10°	18796	17688	15815
15°	18728	15009	11136
20°	18668	11266	9416
25°	18560	10236	3656
30°	18493	6774	1558
35°	18318	2882	344
40°	18128	1270	246
45°	17862	304	114
50°	17341	187	61
55°	16918	119	63
60°	16112	107	65
65°	15045	111	69
70°	13524	117	74
75°	11107	136	81
80°	7880	156	74
85°	2523	163	91



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.8	9.1
10°-20°	1412.5	21.8
20°-30°	1544.4	23.8
30°-40°	1117.7	17.2
40°-50°	834.1	12.9
50°-60°	487.1	7.5
60°-70°	302.8	4.7
70°-80°	157.9	2.4
80°-90°	31.6	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°	3548.8	54.8
0°-40°	4666.5	72.0
0°-60°	5987.7	92.4
0°-90°	6480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6443	6443	6443	6443	6443	
5°	6415	6392	6250	6231	6218	610
15°	6203	5986	5064	3960	3771	1752
25°	5797	4921	3300	1720	1186	2674
35°	5201	3172	858	186	103	3252
45°	4410	2073	80	55	30	3386
55°	3424	402	26	30	14	3048
65°	2282	34	19	18	12	2256
75°	1071	20	16	13	10	1147
85°	96	13	10	9	6	182
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6442.7	6442.7	6442.7	6442.7	6442.7
2.5°	6432.6	6440.7	6402.1	6402.1	6391.0
5°	6415.3	6392.0	6250.1	6230.8	6217.6
7.5°	6377.8	6286.6	6147.7	6122.3	6078.7
10°	6333.2	6173.0	6033.1	5672.2	5407.6
12.5°	6270.4	6078.7	5682.3	4788.2	4421.2
15°	6203.4	5985.5	5063.9	3959.9	3771.3
17.5°	6124.4	5861.8	4260.0	3631.4	3550.3
20°	6030.1	5661.1	3730.8	3405.4	3133.7
22.5°	5919.6	5349.8	3491.5	2830.5	2097.6
25°	5796.9	4921.0	3299.9	1720.4	1186.1
27.5°	5668.2	4414.1	2920.8	1045.2	810.0
30°	5534.3	3893.0	2107.7	749.2	488.7
32.5°	5363.0	3467.2	1278.4	421.7	218.0
35°	5200.8	3172.2	857.7	185.5	103.4
37.5°	5013.2	2968.4	626.5	98.3	73.0
40°	4829.7	2769.7	357.9	74.0	70.0
42.5°	4598.6	2522.3	151.1	70.0	49.7
45°	4410.0	2073.2	80.1	54.7	30.4
47.5°	4160.6	1419.3	53.7	42.6	19.3
50°	3910.2	876.9	45.6	33.5	15.2
52.5°	3672.0	580.9	33.5	31.4	14.2
55°	3423.6	401.5	26.4	30.4	14.2
57.5°	3147.8	197.7	22.3	29.4	13.2
60°	2863.0	77.0	21.3	28.4	13.2
62.5°	2581.1	42.6	20.3	23.3	12.2
65°	2282.1	33.5	19.3	18.2	12.2
67.5°	1986.0	27.4	18.2	17.2	12.2
70°	1683.9	24.3	17.2	15.2	11.2
72.5°	1375.7	22.3	16.2	15.2	10.1
75°	1070.6	20.3	16.2	13.2	10.1
77.5°	800.9	19.3	15.2	13.2	8.1
80°	532.2	17.2	14.2	11.2	7.1
82.5°	294.0	16.2	12.2	10.1	7.1
85°	96.3	13.2	10.1	9.1	6.1
87.5°	15.2	9.1	8.1	8.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)