

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-LD5-5-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-LD5-5-N-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

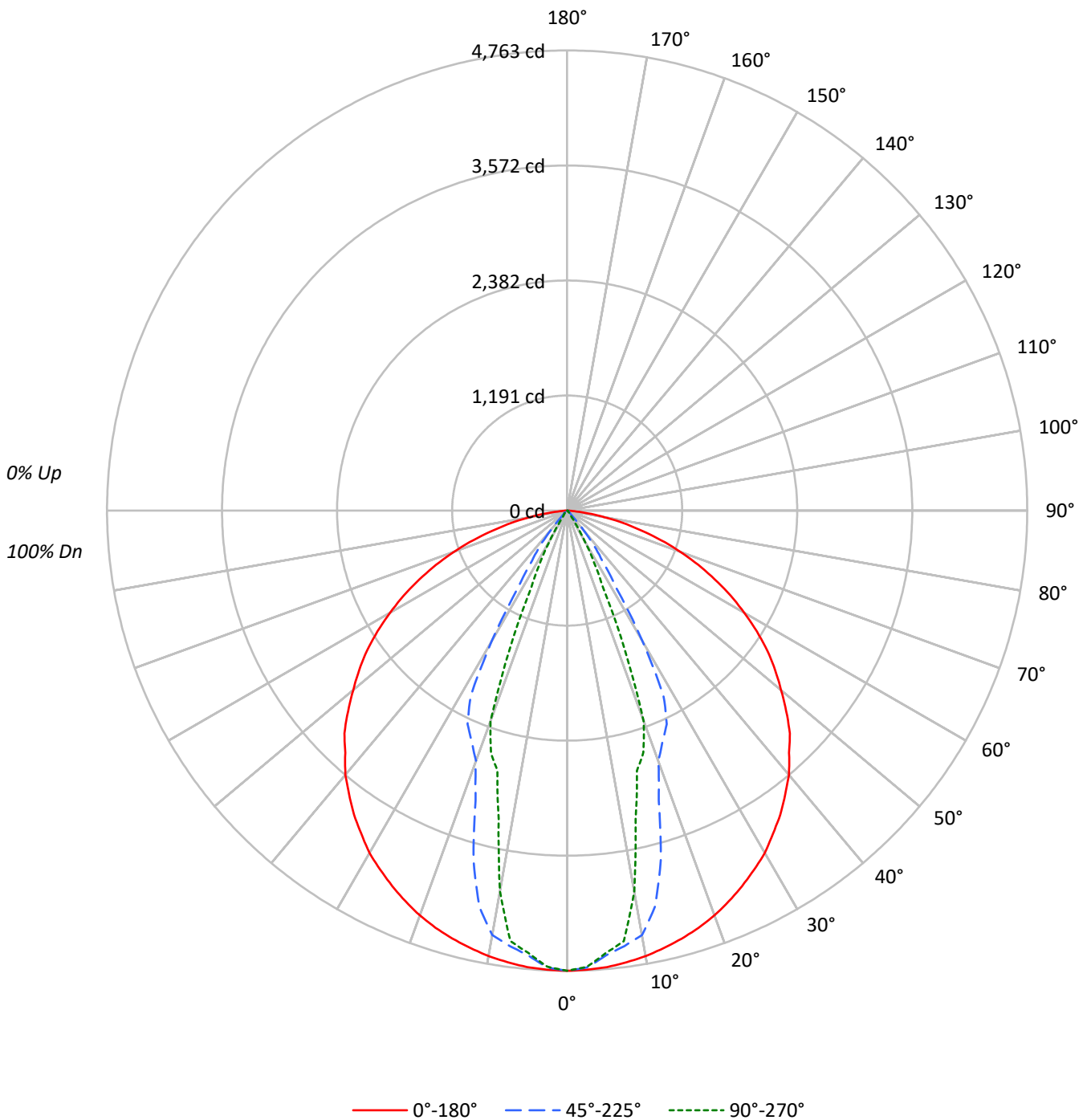
Lumens per Lamp: N/A
Luminaire Lumens: 4790.9 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
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°	13983	13983	13983
5°	13947	13505	13418
10°	13897	13078	11693
15°	13846	11097	8233
20°	13803	8330	6962
25°	13723	7568	2703
30°	13673	5008	1152
35°	13543	2131	255
40°	13403	939	182
45°	13206	224	84
50°	12821	138	45
55°	12508	88	46
60°	11912	79	48
65°	11123	82	51
70°	9999	86	54
75°	8211	101	60
80°	5826	115	54
85°	1865	121	67



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	9.1
10°-20°	1044.4	21.8
20°-30°	1141.9	23.8
30°-40°	826.4	17.2
40°-50°	616.7	12.9
50°-60°	360.1	7.5
60°-70°	223.9	4.7
70°-80°	116.7	2.4
80°-90°	23.3	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°	2623.8	54.8
0°-40°	3450.2	72.0
0°-60°	4427.0	92.4
0°-90°	4790.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4763	4763	4763	4763	4763	
5°	4743	4726	4621	4607	4597	451
15°	4586	4425	3744	2928	2788	1295
25°	4286	3638	2440	1272	877	1977
35°	3845	2345	634	137	76	2404
45°	3261	1533	59	40	22	2504
55°	2531	297	20	22	10	2254
65°	1687	25	14	14	9	1668
75°	792	15	12	10	8	848
85°	71	10	8	7	4	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4763.4	4763.4	4763.4	4763.4	4763.4
2.5°	4755.9	4761.9	4733.4	4733.4	4725.2
5°	4743.2	4725.9	4621.0	4606.8	4597.0
7.5°	4715.4	4648.0	4545.3	4526.6	4494.3
10°	4682.5	4564.0	4460.6	4193.8	3998.1
12.5°	4636.0	4494.3	4201.3	3540.1	3268.8
15°	4586.5	4425.4	3744.0	2927.8	2788.3
17.5°	4528.1	4333.9	3149.6	2684.9	2624.9
20°	4458.4	4185.5	2758.4	2517.8	2316.9
22.5°	4376.6	3955.4	2581.5	2092.8	1550.8
25°	4286.0	3638.3	2439.8	1272.0	877.0
27.5°	4190.8	3263.6	2159.5	772.8	598.9
30°	4091.8	2878.3	1558.3	553.9	361.3
32.5°	3965.1	2563.5	945.2	311.8	161.2
35°	3845.2	2345.4	634.1	137.2	76.5
37.5°	3706.5	2194.7	463.2	72.7	54.0
40°	3570.9	2047.8	264.6	54.7	51.7
42.5°	3400.0	1864.9	111.7	51.7	36.7
45°	3260.6	1532.8	59.2	40.5	22.5
47.5°	3076.2	1049.4	39.7	31.5	14.2
50°	2891.0	648.4	33.7	24.7	11.2
52.5°	2714.9	429.5	24.7	23.2	10.5
55°	2531.2	296.8	19.5	22.5	10.5
57.5°	2327.4	146.2	16.5	21.7	9.7
60°	2116.7	57.0	15.7	21.0	9.7
62.5°	1908.4	31.5	15.0	17.2	9.0
65°	1687.2	24.7	14.2	13.5	9.0
67.5°	1468.4	20.2	13.5	12.7	9.0
70°	1245.0	18.0	12.7	11.2	8.2
72.5°	1017.1	16.5	12.0	11.2	7.5
75°	791.5	15.0	12.0	9.7	7.5
77.5°	592.1	14.2	11.2	9.7	6.0
80°	393.5	12.7	10.5	8.2	5.2
82.5°	217.4	12.0	9.0	7.5	5.2
85°	71.2	9.7	7.5	6.7	4.5
87.5°	11.2	6.7	6.0	6.0	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)