

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-LD5-16-N-TWBWG-UNV-L850-CD2-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-16-N-TWBWG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

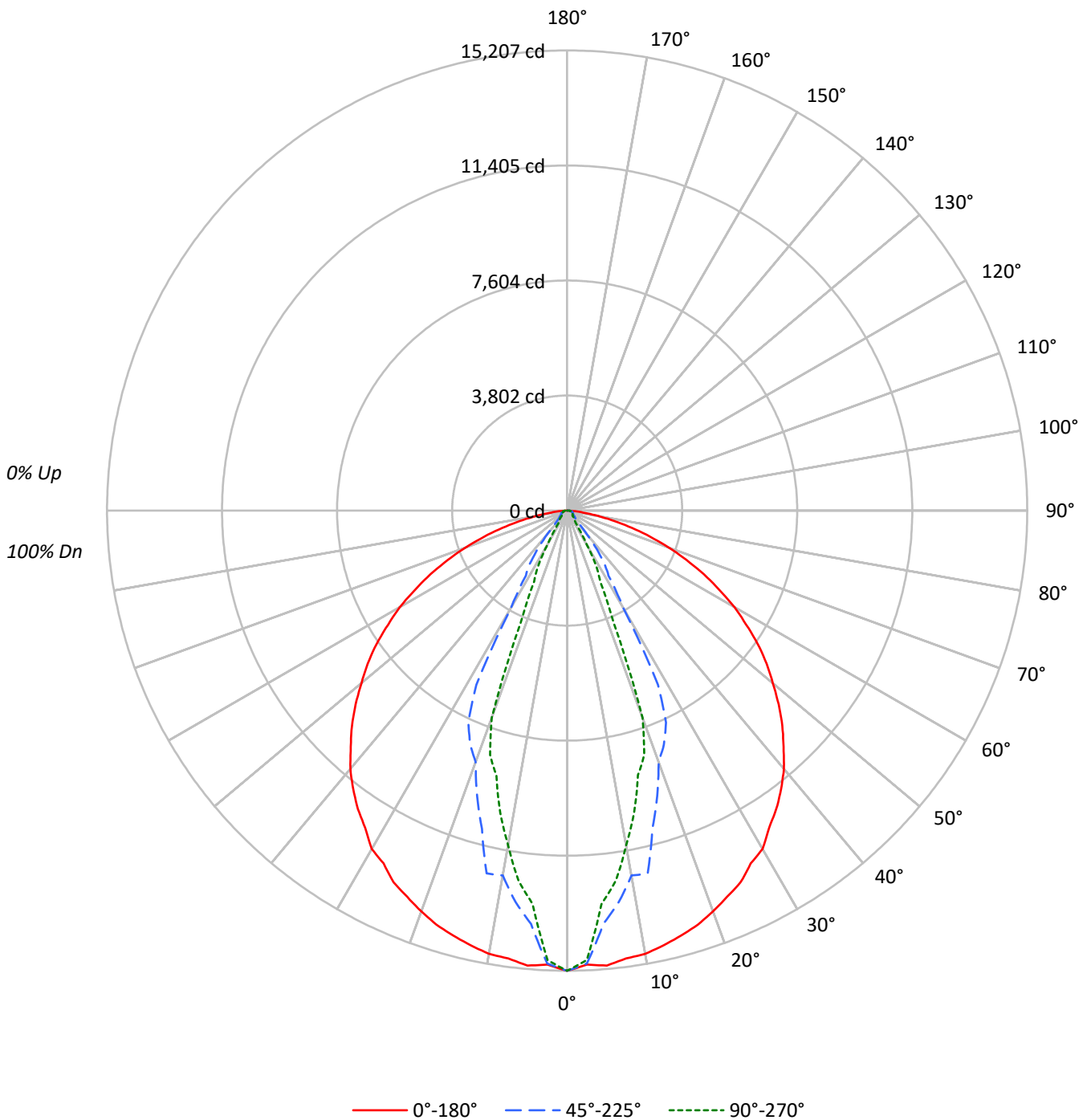
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15098.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 126.6  
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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

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

	0°	45°	90°
0°	44642	44642	44642
5°	44377	40085	38103
10°	44139	35906	32880
15°	43896	32269	26720
20°	43630	26692	21890
25°	43418	23977	7962
30°	43152	11939	4151
35°	42439	7220	1580
40°	41841	3609	1377
45°	40739	1563	1019
50°	39355	1323	929
55°	38000	1103	974
60°	35950	1146	950
65°	32876	1241	970
70°	28693	1293	1006
75°	22938	1423	1108
80°	15462	1675	1226
85°	8247	1979	1535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1299.0	8.6
10°-20°	3149.1	20.9
20°-30°	3430.5	22.7
30°-40°	2639.0	17.5
40°-50°	1949.9	12.9
50°-60°	1226.8	8.1
60°-70°	803.4	5.3
70°-80°	449.8	3.0
80°-90°	150.6	1.0
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°	7878.6	52.2
0°-40°	10517.6	69.7
0°-60°	13694.3	90.7
0°-90°	15098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15207	15207	15207	15207	15207	
5°	15092	14975	13716	12906	13054	###
15°	14540	12642	10888	9451	9049	4106
25°	13561	10133	7730	3443	2583	6234
35°	12049	7468	2148	684	475	7535
45°	10058	3977	412	347	272	7746
55°	7690	1019	245	257	220	6851
65°	4987	252	215	192	172	4918
75°	2211	190	170	152	137	2372
85°	315	120	122	117	102	401
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15207.2	15207.2	15207.2	15207.2	15207.2
2.5°	15019.8	15024.8	14987.4	14912.4	14865.0
5°	15092.3	14974.9	13715.7	12906.3	13053.7
7.5°	14927.4	14320.3	13053.7	12449.1	12331.7
10°	14872.4	13316.0	12246.7	12041.9	11242.4
12.5°	14715.1	12706.4	12284.2	10992.6	10225.6
15°	14540.2	12641.5	10887.6	9451.1	9048.9
17.5°	14350.3	12071.8	9893.3	8661.6	8469.3
20°	14093.0	11707.1	8839.0	7962.1	7285.1
22.5°	13815.7	11532.2	8361.8	5189.0	4022.3
25°	13560.8	10133.2	7729.8	3442.7	2583.3
27.5°	13141.1	10020.7	6493.1	2520.8	2131.1
30°	12913.8	8981.4	3715.0	1896.2	1301.6
32.5°	12421.6	8167.0	2543.3	1151.7	777.0
35°	12049.4	7467.5	2148.5	684.5	474.7
37.5°	11612.2	7005.3	1606.4	469.7	412.2
40°	11147.5	6460.6	1016.8	419.7	392.2
42.5°	10582.8	5818.6	602.1	394.7	337.3
45°	10058.2	3977.3	412.2	347.3	272.3
47.5°	9478.6	2713.2	352.3	294.8	234.8
50°	8874.0	1773.8	322.3	262.3	229.8
52.5°	8306.9	1454.0	279.8	262.3	229.8
55°	7689.8	1019.3	244.8	257.3	219.9
57.5°	7012.8	634.6	229.8	249.8	212.4
60°	6388.2	374.7	227.3	242.3	192.4
62.5°	5658.7	284.8	222.3	214.9	182.4
65°	4986.6	252.3	214.9	192.4	172.4
67.5°	4264.6	227.3	199.9	184.9	167.4
70°	3572.6	204.9	189.9	172.4	152.4
72.5°	2878.1	197.4	179.9	162.4	144.9
75°	2211.0	189.9	169.9	152.4	137.4
77.5°	1608.9	177.4	159.9	147.4	129.9
80°	1044.3	162.4	152.4	137.4	117.4
82.5°	582.1	147.4	139.9	127.4	112.4
85°	314.8	119.9	122.4	117.4	102.4
87.5°	57.5	84.9	104.9	102.4	89.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)