

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-L835-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-L835-CD2-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

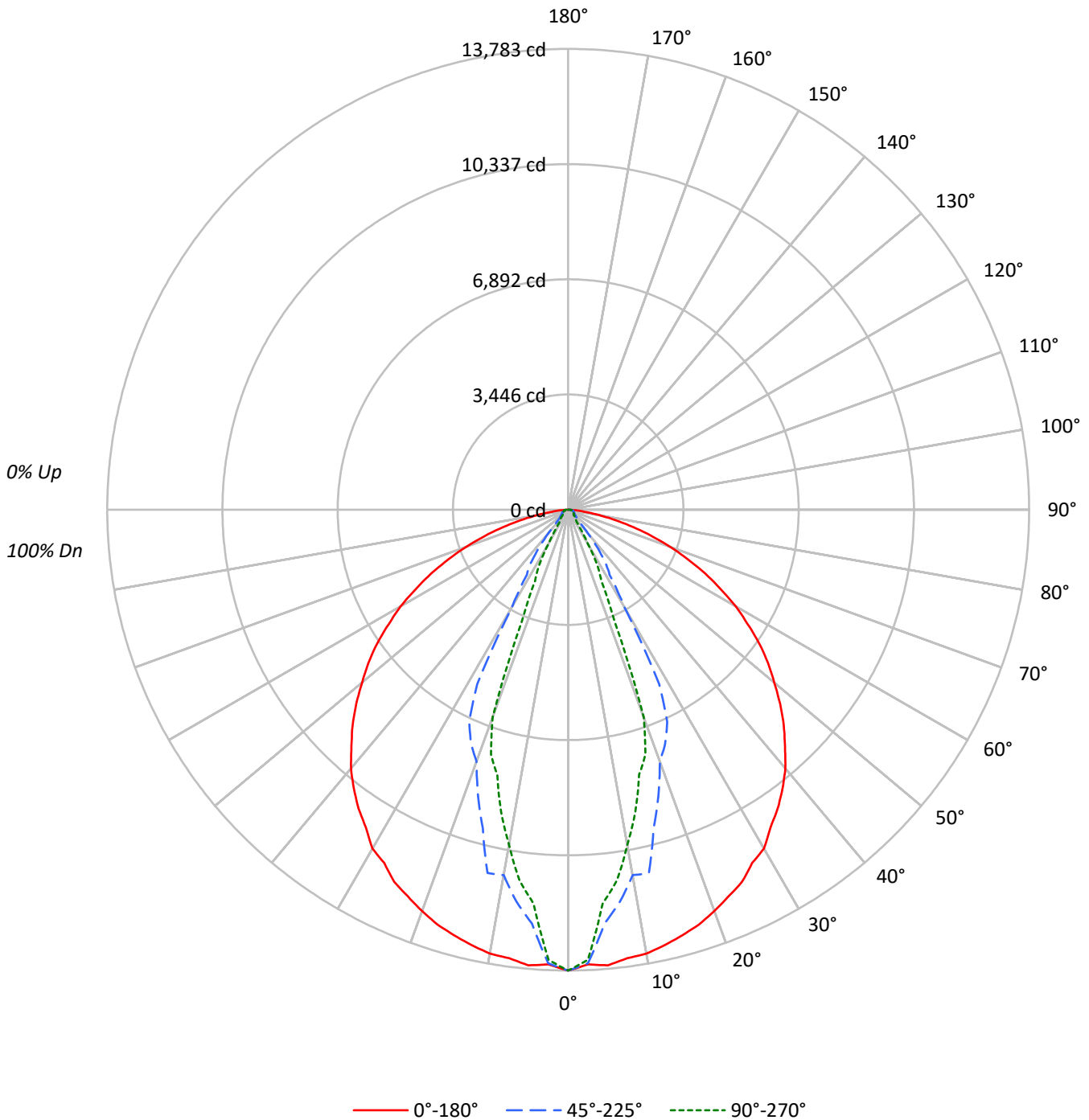
Lumens per Lamp: N/A  
Luminaire Lumens: 13684.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 126.6  
Input Voltage (V):  
Input Current (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	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°	40462	40462	40462
5°	40221	36331	34535
10°	40005	32543	29801
15°	39785	29247	24218
20°	39544	24192	19839
25°	39352	21732	7217
30°	39110	10821	3762
35°	38464	6544	1432
40°	37923	3271	1248
45°	36924	1417	924
50°	35669	1199	842
55°	34441	1000	883
60°	32583	1039	861
65°	29797	1124	879
70°	26006	1172	912
75°	20789	1290	1004
80°	14014	1518	1111
85°	7474	1794	1391



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1177.3	8.6
10°-20°	2854.2	20.9
20°-30°	3109.2	22.7
30°-40°	2391.8	17.5
40°-50°	1767.3	12.9
50°-60°	1111.9	8.1
60°-70°	728.1	5.3
70°-80°	407.6	3.0
80°-90°	136.5	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
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0°-30°	7140.7	52.2
0°-40°	9532.5	69.7
0°-60°	12411.7	90.7
0°-90°	13684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13783	13783	13783	13783	13783	
5°	13679	13572	12431	11698	11831	###
15°	13178	11458	9868	8566	8201	3721
25°	12291	9184	7006	3120	2341	5650
35°	10921	6768	1947	620	430	6830
45°	9116	3605	374	315	247	7021
55°	6970	924	222	233	199	6209
65°	4520	229	195	174	156	4458
75°	2004	172	154	138	124	2150
85°	285	109	111	106	93	364
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13783.0	13783.0	13783.0	13783.0	13783.0
2.5°	13613.2	13617.7	13583.7	13515.8	13472.8
5°	13678.8	13572.4	12431.2	11697.5	11831.1
7.5°	13529.4	12979.2	11831.1	11283.2	11176.7
10°	13479.6	12068.9	11099.8	10914.1	10189.5
12.5°	13336.9	11516.4	11133.7	9963.1	9267.9
15°	13178.4	11457.5	9868.0	8566.0	8201.4
17.5°	13006.3	10941.3	8966.8	7850.4	7676.1
20°	12773.1	10610.7	8011.2	7216.4	6602.8
22.5°	12521.8	10452.2	7578.7	4703.0	3645.6
25°	12290.8	9184.1	7005.8	3120.2	2341.3
27.5°	11910.4	9082.2	5885.0	2284.7	1931.5
30°	11704.3	8140.3	3367.1	1718.6	1179.7
32.5°	11258.3	7402.1	2305.1	1043.9	704.2
35°	10920.9	6768.1	1947.3	620.4	430.2
37.5°	10524.6	6349.2	1456.0	425.7	373.6
40°	10103.5	5855.6	921.6	380.4	355.5
42.5°	9591.7	5273.6	545.7	357.8	305.7
45°	9116.2	3604.8	373.6	314.7	246.8
47.5°	8590.9	2459.1	319.3	267.2	212.8
50°	8042.9	1607.7	292.1	237.8	208.3
52.5°	7528.9	1317.8	253.6	237.8	208.3
55°	6969.6	923.8	221.9	233.2	199.3
57.5°	6356.0	575.1	208.3	226.4	192.5
60°	5789.9	339.6	206.1	219.6	174.4
62.5°	5128.7	258.1	201.5	194.7	165.3
65°	4519.6	228.7	194.7	174.4	156.2
67.5°	3865.2	206.1	181.1	167.6	151.7
70°	3238.0	185.7	172.1	156.2	138.1
72.5°	2608.5	178.9	163.0	147.2	131.3
75°	2003.9	172.1	154.0	138.1	124.5
77.5°	1458.2	160.8	144.9	133.6	117.7
80°	946.5	147.2	138.1	124.5	106.4
82.5°	527.6	133.6	126.8	115.5	101.9
85°	285.3	108.7	111.0	106.4	92.8
87.5°	52.1	77.0	95.1	92.8	81.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)