

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-LD5-14-N-WG-UNV-L840-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-LD5-14-N-WG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

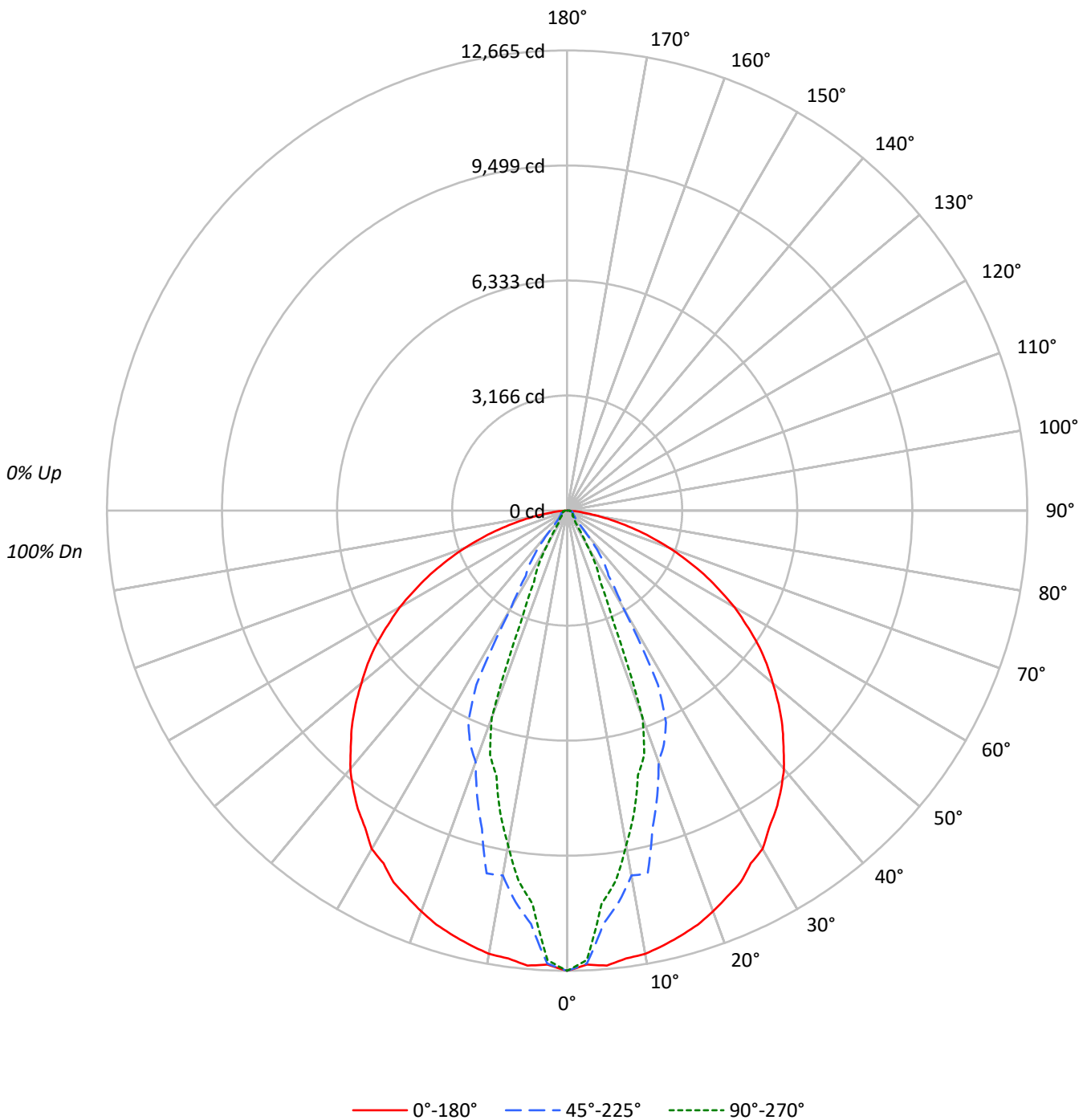
Lumens per Lamp: N/A
Luminaire Lumens: 12574.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	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°	37180	37180	37180
5°	36959	33384	31733
10°	36760	29903	27383
15°	36558	26875	22253
20°	36336	22230	18230
25°	36160	19969	6631
30°	35938	9943	3457
35°	35344	6013	1316
40°	34846	3006	1147
45°	33928	1302	849
50°	32776	1101	774
55°	31648	919	811
60°	29940	955	791
65°	27380	1033	808
70°	23896	1077	838
75°	19103	1185	922
80°	12877	1395	1021
85°	6869	1649	1279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1081.8	8.6
10°-20°	2622.6	20.9
20°-30°	2857.0	22.7
30°-40°	2197.8	17.5
40°-50°	1623.9	12.9
50°-60°	1021.7	8.1
60°-70°	669.0	5.3
70°-80°	374.6	3.0
80°-90°	125.4	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°	6561.5	52.2
0°-40°	8759.3	69.7
0°-60°	11405.0	90.7
0°-90°	12574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12665	12665	12665	12665	12665	
5°	12569	12472	11423	10749	10871	###
15°	12109	10528	9068	7871	7536	3419
25°	11294	8439	6438	2867	2151	5192
35°	10035	6219	1789	570	395	6276
45°	8377	3312	343	289	227	6451
55°	6404	849	204	214	183	5705
65°	4153	210	179	160	144	4096
75°	1841	158	142	127	114	1976
85°	262	100	102	98	85	334
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12665.0	12665.0	12665.0	12665.0	12665.0
2.5°	12508.9	12513.1	12481.9	12419.4	12379.9
5°	12569.3	12471.5	11422.8	10748.7	10871.4
7.5°	12431.9	11926.3	10871.4	10367.9	10270.1
10°	12386.2	11089.9	10199.4	10028.8	9363.0
12.5°	12255.1	10582.2	10230.6	9154.9	8516.1
15°	12109.4	10528.1	9067.5	7871.1	7536.1
17.5°	11951.3	10053.7	8239.4	7213.6	7053.4
20°	11737.0	9750.0	7361.4	6631.1	6067.2
22.5°	11506.0	9604.3	6964.0	4321.5	3349.9
25°	11293.8	8439.1	6437.6	2867.1	2151.4
27.5°	10944.3	8345.5	5407.6	2099.4	1774.8
30°	10754.9	7480.0	3093.9	1579.2	1084.0
32.5°	10345.0	6801.7	2118.1	959.2	647.1
35°	10035.0	6219.1	1789.4	570.1	395.3
37.5°	9670.9	5834.2	1337.9	391.2	343.3
40°	9283.9	5380.6	846.8	349.6	326.7
42.5°	8813.7	4845.9	501.4	328.7	280.9
45°	8376.7	3312.4	343.3	289.2	226.8
47.5°	7894.0	2259.6	293.4	245.5	195.6
50°	7390.5	1477.3	268.4	218.5	191.4
52.5°	6918.2	1210.9	233.0	218.5	191.4
55°	6404.3	848.9	203.9	214.3	183.1
57.5°	5840.4	528.5	191.4	208.1	176.9
60°	5320.2	312.1	189.3	201.8	160.2
62.5°	4712.7	237.2	185.2	178.9	151.9
65°	4153.0	210.1	178.9	160.2	143.6
67.5°	3551.7	189.3	166.5	154.0	139.4
70°	2975.3	170.6	158.1	143.6	126.9
72.5°	2396.9	164.4	149.8	135.2	120.7
75°	1841.4	158.1	141.5	126.9	114.4
77.5°	1339.9	147.7	133.2	122.8	108.2
80°	869.7	135.2	126.9	114.4	97.8
82.5°	484.8	122.8	116.5	106.1	93.6
85°	262.2	99.9	102.0	97.8	85.3
87.5°	47.9	70.7	87.4	85.3	74.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)