

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: **8ILED-LD5-14-N-WG-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: 8ILED-LD5-14-N-WG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

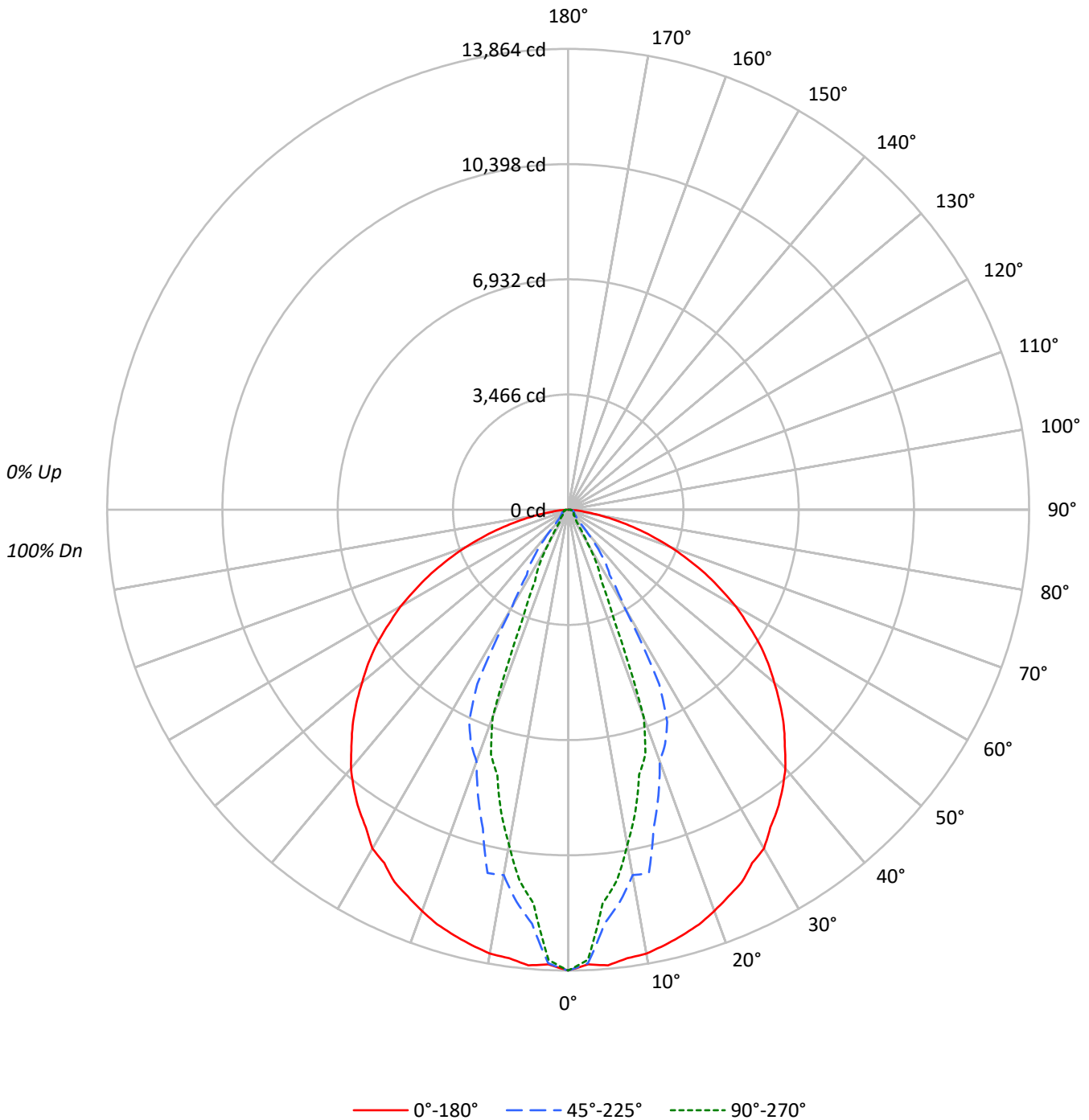
Lumens per Lamp: N/A
Luminaire Lumens: 13764.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
Input Voltage (V):
Input Current (A_{in}): 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°	20349	20349	20349
5°	20250	18286	17368
10°	20164	16392	14987
15°	20076	14743	12180
20°	19977	12205	9978
25°	19906	10973	3629
30°	19810	5469	1892
35°	19512	3310	720
40°	19270	1657	628
45°	18799	718	465
50°	18202	609	423
55°	17625	509	444
60°	16734	530	433
65°	15377	574	442
70°	13513	601	459
75°	10921	665	505
80°	7514	789	559
85°	4229	948	700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1184.2	8.6
10°-20°	2870.9	20.9
20°-30°	3127.4	22.7
30°-40°	2405.8	17.5
40°-50°	1777.6	12.9
50°-60°	1118.4	8.1
60°-70°	732.4	5.3
70°-80°	410.0	3.0
80°-90°	137.3	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°	7182.4	52.2
0°-40°	9588.3	69.7
0°-60°	12484.3	90.7
0°-90°	13764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13864	13864	13864	13864	13864	
5°	13759	13652	12504	11766	11900	###
15°	13256	11524	9926	8616	8249	3743
25°	12363	9238	7047	3138	2355	5683
35°	10985	6808	1959	624	433	6870
45°	9170	3626	376	317	248	7062
55°	7010	929	223	235	200	6245
65°	4546	230	196	175	157	4484
75°	2016	173	155	139	125	2163
85°	287	109	112	107	93	366
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13863.6	13863.6	13863.6	13863.6	13863.6
2.5°	13692.8	13697.3	13663.1	13594.8	13551.5
5°	13758.8	13651.8	12503.9	11765.9	11900.3
7.5°	13608.5	13055.0	11900.3	11349.1	11242.1
10°	13558.4	12139.4	11164.6	10977.9	10249.1
12.5°	13414.9	11583.7	11198.8	10021.3	9322.1
15°	13255.5	11524.5	9925.7	8616.0	8249.4
17.5°	13082.4	11005.2	9019.2	7896.3	7721.0
20°	12847.8	10672.7	8058.0	7258.6	6641.4
22.5°	12595.0	10513.3	7623.0	4730.5	3666.9
25°	12362.7	9237.8	7046.8	3138.5	2355.0
27.5°	11980.0	9135.3	5919.4	2298.1	1942.8
30°	11772.8	8187.9	3386.7	1728.7	1186.6
32.5°	11324.1	7445.4	2318.6	1050.0	708.3
35°	10984.7	6807.7	1958.7	624.1	432.7
37.5°	10586.1	6386.3	1464.5	428.2	375.8
40°	10162.5	5889.8	927.0	382.6	357.6
42.5°	9647.8	5304.5	548.9	359.9	307.5
45°	9169.5	3625.9	375.8	316.6	248.3
47.5°	8641.1	2473.4	321.1	268.8	214.1
50°	8089.9	1617.1	293.8	239.1	209.5
52.5°	7572.9	1325.5	255.1	239.1	209.5
55°	7010.4	929.2	223.2	234.6	200.4
57.5°	6393.1	578.5	209.5	227.8	193.6
60°	5823.7	341.6	207.3	220.9	175.4
62.5°	5158.7	259.6	202.7	195.9	166.3
65°	4546.0	230.0	195.9	175.4	157.2
67.5°	3887.8	207.3	182.2	168.5	152.6
70°	3256.9	186.8	173.1	157.2	138.9
72.5°	2623.8	179.9	164.0	148.0	132.1
75°	2015.6	173.1	154.9	138.9	125.3
77.5°	1466.8	161.7	145.8	134.4	118.4
80°	952.0	148.0	138.9	125.3	107.0
82.5°	530.7	134.4	127.5	116.2	102.5
85°	287.0	109.3	111.6	107.0	93.4
87.5°	52.4	77.4	95.7	93.4	82.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)