

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-LD5-32-W-FLUPL-UNV-L840-CD4-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 (P34183)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-W-FLUPL-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

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

Summary

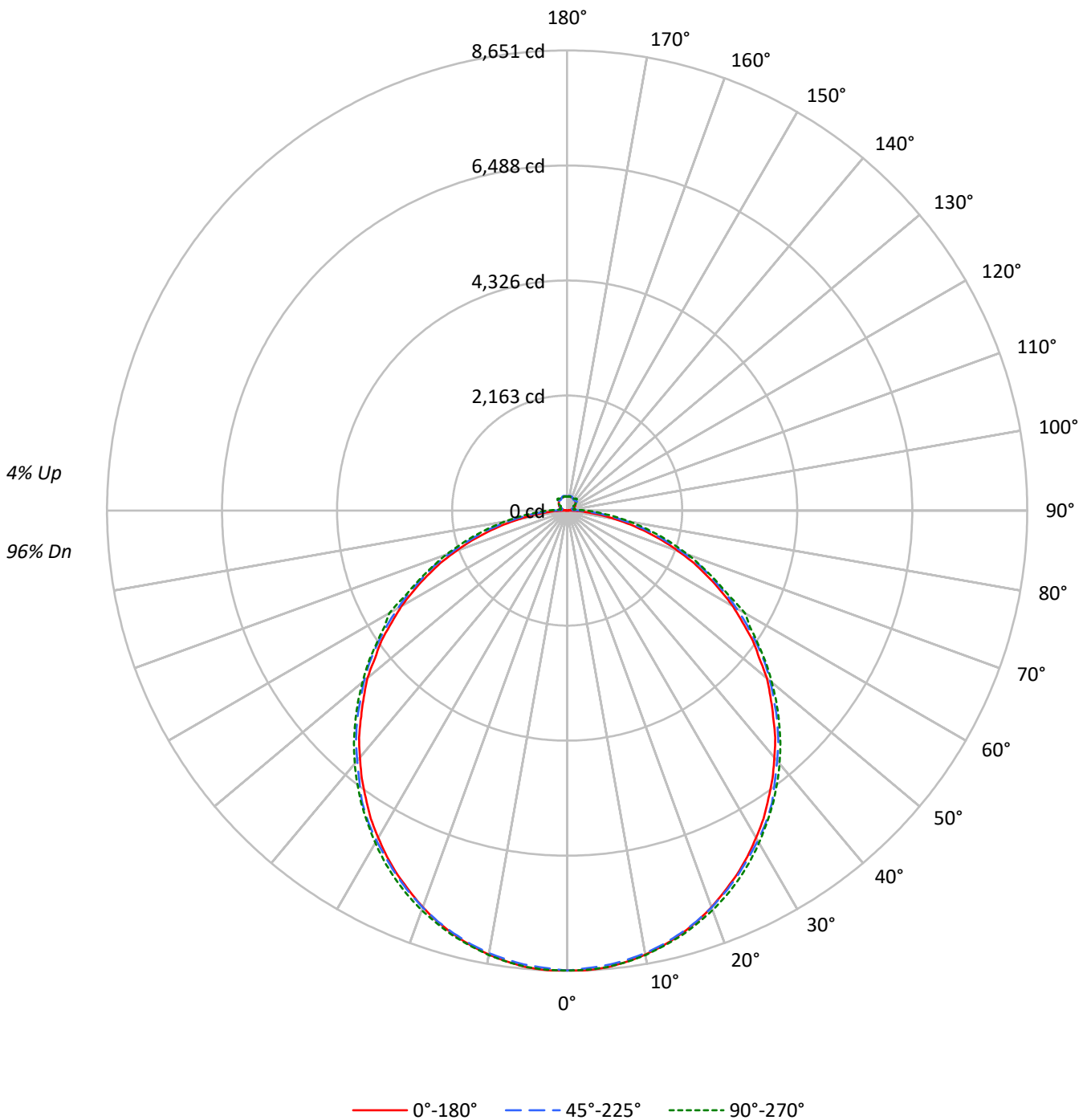
Lumens per Lamp: N/A
Luminaire Lumens: 25521.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	86	84	82	79				
2	98	89	82	76	95	87	81	75	83	77	73	79	74	70	75	72	68	66				
3	89	78	70	63	86	76	69	63	73	66	61	69	64	59	66	62	58	55				
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47				
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43	41				
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	42	38	36				
7	64	50	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34	32				
8	60	46	38	32	58	45	37	31	43	36	31	42	35	31	40	35	30	28				
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	31	27	25				
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12692	12692	12692
5°	12687	12547	12574
10°	12606	12406	12408
15°	12492	12225	12218
20°	12338	12025	12009
25°	12157	11798	11781
30°	11952	11577	11503
35°	11726	11346	11220
40°	11491	10974	10904
45°	11231	10676	10546
50°	11026	10317	10147
55°	10712	9894	9711
60°	10339	9388	9536
65°	9825	8793	8616
70°	9191	8095	7965
75°	8342	7225	7143
80°	7171	6129	6217
85°	5738	4866	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.1	3.2
10°-20°	2328.3	9.1
20°-30°	3498.4	13.7
30°-40°	4185.6	16.4
40°-50°	4303.1	16.9
50°-60°	3875.4	15.2
60°-70°	2978.4	11.7
70°-80°	1773.2	6.9
80°-90°	642.5	2.5
90°-100°	138.5	0.5
100°-110°	115.1	0.5
110°-120°	135.7	0.5
120°-130°	167.9	0.7
130°-140°	183.3	0.7
140°-150°	157.4	0.6
150°-160°	118.4	0.5
160°-170°	76.9	0.3
170°-180°	25.9	0.1
0°-30°	6643.7	26.0
0°-40°	10829.3	42.4
0°-60°	19007.9	74.5
0°-90°	24402.0	95.6
90°-120°	389.2	1.5
90°-150°	897.8	3.5
90°-180°	1119.0	4.4
0°-180°	25521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8647	8647	8647	8647	8647	
5°	8620	8615	8579	8611	8615	818
15°	8248	8253	8230	8266	8275	2326
25°	7550	7564	7577	7631	7644	3477
35°	6601	6682	6713	6727	6740	4132
45°	5478	5536	5585	5639	5635	4234
55°	4261	4278	4341	4377	4386	3795
65°	2905	2931	2999	3057	3061	2880
75°	1540	1584	1683	1777	1772	1634
85°	389	465	573	658	689	428
90°	9	116	233	318	345	31
95°	31	76	112	161	179	32
105°	94	81	103	166	148	97
115°	148	166	116	121	121	146
125°	188	188	215	174	152	168
135°	219	215	246	260	255	170
145°	242	246	237	260	278	152
155°	255	273	255	246	246	118
165°	264	273	282	273	264	75
175°	268	268	273	268	260	26
180°	264	264	264	264	264	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-FLUPL-UNV-L840-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8646.6	8646.6	8646.6	8646.6	8646.6
2.5°	8651.0	8646.6	8610.8	8637.6	8642.1
5°	8619.7	8615.2	8579.4	8610.8	8615.2
7.5°	8557.1	8557.1	8521.3	8557.1	8561.5
10°	8476.5	8476.5	8449.6	8481.0	8485.4
12.5°	8373.6	8378.0	8351.2	8387.0	8387.0
15°	8248.3	8252.7	8230.3	8266.2	8275.1
17.5°	8105.0	8105.0	8096.1	8136.4	8140.8
20°	7935.0	7957.3	7939.4	7984.2	7993.2
22.5°	7742.5	7764.9	7764.9	7814.1	7827.6
25°	7550.1	7563.5	7576.9	7630.6	7644.1
27.5°	7335.3	7362.1	7366.6	7424.8	7438.2
30°	7102.5	7147.3	7169.7	7205.5	7214.4
32.5°	6869.8	6928.0	6954.8	6972.7	6977.2
35°	6601.3	6681.8	6713.2	6726.6	6740.0
37.5°	6341.7	6408.8	6417.8	6467.0	6480.4
40°	6059.8	6140.3	6140.3	6198.5	6211.9
42.5°	5791.2	5809.1	5876.3	5916.5	5934.4
45°	5477.9	5536.1	5585.4	5639.1	5634.6
47.5°	5182.6	5258.7	5272.1	5321.3	5334.7
50°	4900.6	4954.3	4981.2	5021.5	5021.5
52.5°	4551.5	4623.1	4681.3	4703.7	4717.1
55°	4260.6	4278.5	4341.2	4377.0	4385.9
57.5°	3907.1	3951.8	4010.0	4054.8	4077.1
60°	3598.3	3625.1	3674.3	3737.0	3862.3
62.5°	3249.2	3280.5	3343.2	3531.1	3401.3
65°	2904.6	2931.4	2998.6	3056.7	3061.2
67.5°	2577.9	2604.7	2698.7	2716.6	2730.0
70°	2215.3	2251.2	2331.7	2389.9	2412.3
72.5°	1884.2	1915.5	1996.0	2063.2	2085.6
75°	1539.6	1584.3	1682.8	1776.8	1772.3
77.5°	1212.8	1293.4	1374.0	1450.0	1472.4
80°	908.5	971.2	1078.6	1159.1	1190.5
82.5°	635.5	707.1	814.5	895.1	926.4
85°	389.4	465.4	572.9	657.9	689.2
87.5°	188.0	264.1	380.4	465.4	501.3
90°	9.0	116.4	232.7	317.8	344.6
92.5°	17.9	67.1	152.2	219.3	241.7
95°	31.3	76.1	111.9	161.1	179.0
97.5°	44.8	67.1	98.5	129.8	143.2
100°	62.7	67.1	111.9	116.4	125.3
102.5°	76.1	71.6	107.4	116.4	116.4
105°	94.0	80.6	102.9	165.6	147.7
107.5°	107.4	111.9	98.5	116.4	125.3
110°	120.8	129.8	107.4	125.3	125.3



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.3	147.7	116.4	116.4	125.3
115°	147.7	165.6	116.4	120.8	120.8
117.5°	161.1	170.1	138.7	129.8	129.8
120°	170.1	174.5	174.5	129.8	138.7
122.5°	179.0	183.5	196.9	143.2	138.7
125°	188.0	188.0	214.8	174.5	152.2
127.5°	196.9	196.9	228.2	205.9	183.5
130°	205.9	196.9	241.7	223.8	214.8
132.5°	214.8	205.9	246.1	241.7	232.7
135°	219.3	214.8	246.1	259.6	255.1
137.5°	228.2	223.8	237.2	273.0	268.5
140°	232.7	232.7	237.2	273.0	282.0
142.5°	237.2	237.2	237.2	268.5	282.0
145°	241.7	246.1	237.2	259.6	277.5
147.5°	246.1	255.1	237.2	255.1	264.1
150°	250.6	259.6	237.2	250.6	255.1
152.5°	255.1	268.5	246.1	246.1	250.6
155°	255.1	273.0	255.1	246.1	246.1
157.5°	259.6	273.0	259.6	246.1	246.1
160°	259.6	277.5	268.5	255.1	250.6
162.5°	264.1	277.5	277.5	264.1	259.6
165°	264.1	273.0	282.0	273.0	264.1
167.5°	268.5	273.0	282.0	277.5	268.5
170°	268.5	273.0	277.5	277.5	268.5
172.5°	268.5	273.0	277.5	273.0	268.5
175°	268.5	268.5	273.0	268.5	259.6
177.5°	268.5	268.5	268.5	264.1	259.6
180°	264.1	264.1	264.1	264.1	264.1

(END OF REPORT)