

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-W-FL-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-FL-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

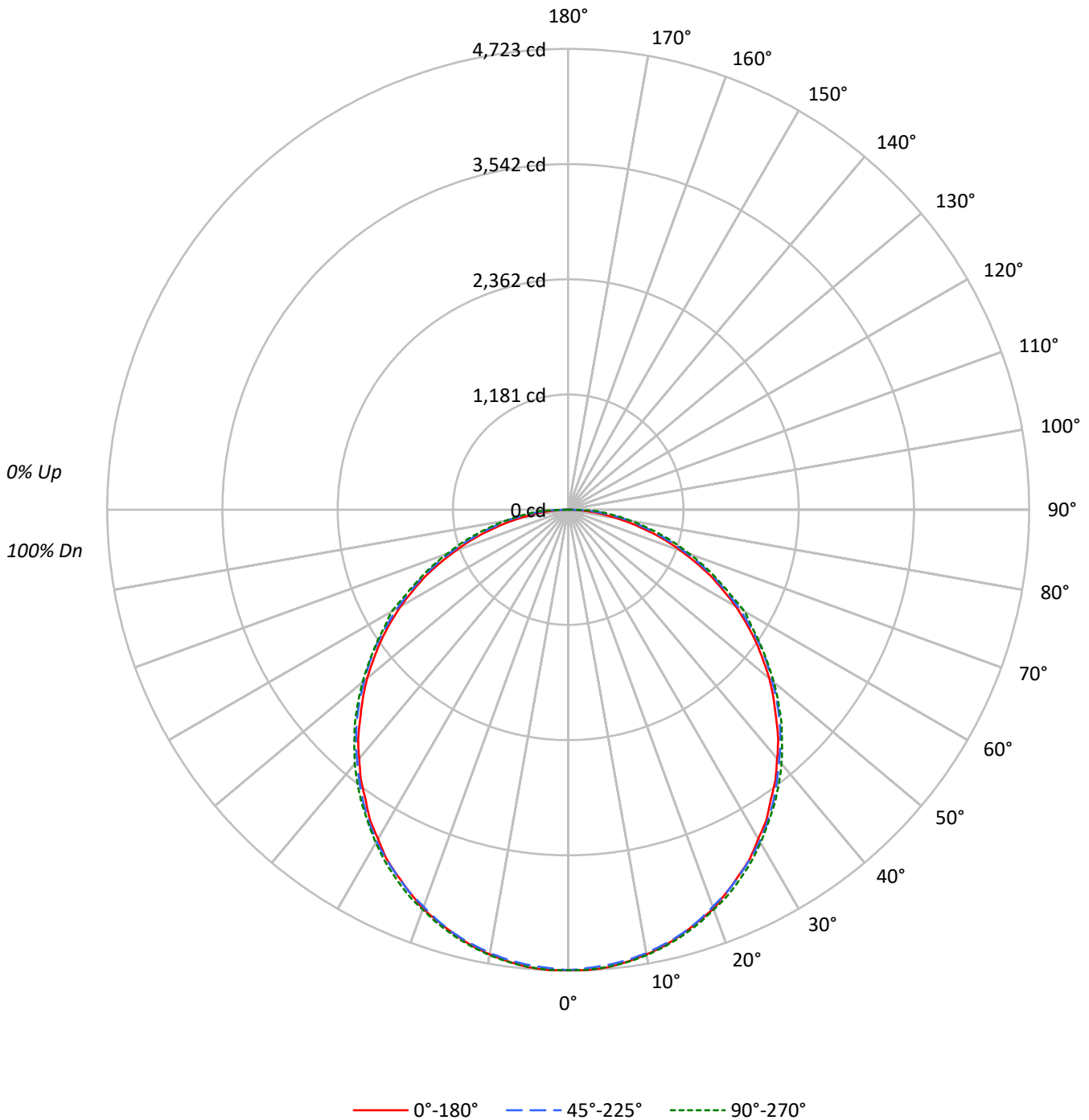
Lumens per Lamp: N/A
Luminaire Lumens: 13365.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
Input Voltage (V):
Input Current (A_{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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-16-W-FL-UNV-L850-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-FL-UNV-L850-CD2-U

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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13856	13856	13856
5°	13836	13689	13728
10°	13735	13527	13557
15°	13599	13337	13352
20°	13474	13077	13106
25°	13245	12847	12863
30°	13014	12618	12574
35°	12754	12299	12266
40°	12502	11935	11940
45°	12196	11611	11562
50°	11927	11194	11123
55°	11579	10769	10644
60°	11157	10205	10316
65°	10628	9558	9470
70°	9837	8719	8712
75°	8865	7787	7863
80°	7599	6919	6800
85°	6025	5126	5660



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-FL-UNV-L850-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	3.3
10°-20°	1271.7	9.5
20°-30°	1913.5	14.3
30°-40°	2289.3	17.1
40°-50°	2359.2	17.7
50°-60°	2127.0	15.9
60°-70°	1633.6	12.2
70°-80°	983.6	7.4
80°-90°	341.0	2.6
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°	3631.4	27.2
0°-40°	5920.7	44.3
0°-60°	10406.8	77.9
0°-90°	13365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4720	4720	4720	4720	4720	
5°	4706	4701	4684	4701	4703	447
15°	4505	4510	4500	4519	4522	1271
25°	4137	4139	4142	4166	4173	1908
35°	3621	3658	3660	3682	3684	2270
45°	3011	3038	3062	3086	3089	2328
55°	2343	2362	2389	2404	2404	2091
65°	1612	1617	1656	1675	1682	1589
75°	854	879	930	963	976	908
85°	230	266	317	361	378	259
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-FL-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4720.1	4720.1	4720.1	4720.1	4720.1
2.5°	4722.6	4720.1	4700.8	4715.3	4720.1
5°	4705.6	4700.8	4683.8	4700.8	4703.2
7.5°	4671.7	4669.3	4654.8	4671.7	4676.6
10°	4628.1	4628.1	4613.6	4630.6	4635.4
12.5°	4574.9	4572.5	4560.4	4579.7	4584.6
15°	4504.7	4509.5	4499.9	4519.2	4521.6
17.5°	4427.2	4429.7	4422.4	4439.3	4446.6
20°	4352.2	4340.1	4330.4	4359.5	4361.9
22.5°	4243.3	4248.1	4245.7	4272.3	4277.2
25°	4136.8	4139.2	4141.6	4165.8	4173.1
27.5°	4032.7	4030.3	4037.5	4056.9	4064.2
30°	3894.7	3914.1	3926.2	3940.7	3943.1
32.5°	3776.1	3783.4	3797.9	3807.6	3810.0
35°	3621.2	3657.5	3659.9	3681.7	3684.1
37.5°	3488.1	3500.2	3512.3	3538.9	3543.7
40°	3330.7	3347.7	3362.2	3386.4	3400.9
42.5°	3185.5	3204.8	3219.4	3241.2	3243.6
45°	3011.2	3037.8	3062.0	3086.2	3088.7
47.5°	2851.4	2878.1	2897.4	2916.8	2919.2
50°	2689.3	2711.0	2728.0	2752.2	2752.2
52.5°	2510.1	2536.8	2563.4	2573.1	2573.1
55°	2343.1	2362.5	2389.1	2403.6	2403.6
57.5°	2161.6	2171.3	2200.3	2226.9	2226.9
60°	1982.5	1994.6	2023.6	2043.0	2089.0
62.5°	1791.2	1810.6	1830.0	1892.9	1866.3
65°	1612.1	1616.9	1655.7	1675.0	1682.3
67.5°	1413.6	1430.6	1469.3	1491.1	1505.6
70°	1224.8	1246.6	1280.5	1307.1	1319.2
72.5°	1045.7	1055.4	1098.9	1135.3	1152.2
75°	854.5	878.7	929.5	963.4	975.5
77.5°	672.9	711.7	760.1	878.7	810.9
80°	513.2	542.2	629.4	634.2	651.1
82.5°	358.2	392.1	450.2	489.0	508.3
85°	230.0	266.3	317.1	360.7	377.6
87.5°	106.5	145.2	210.6	259.0	273.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)