

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

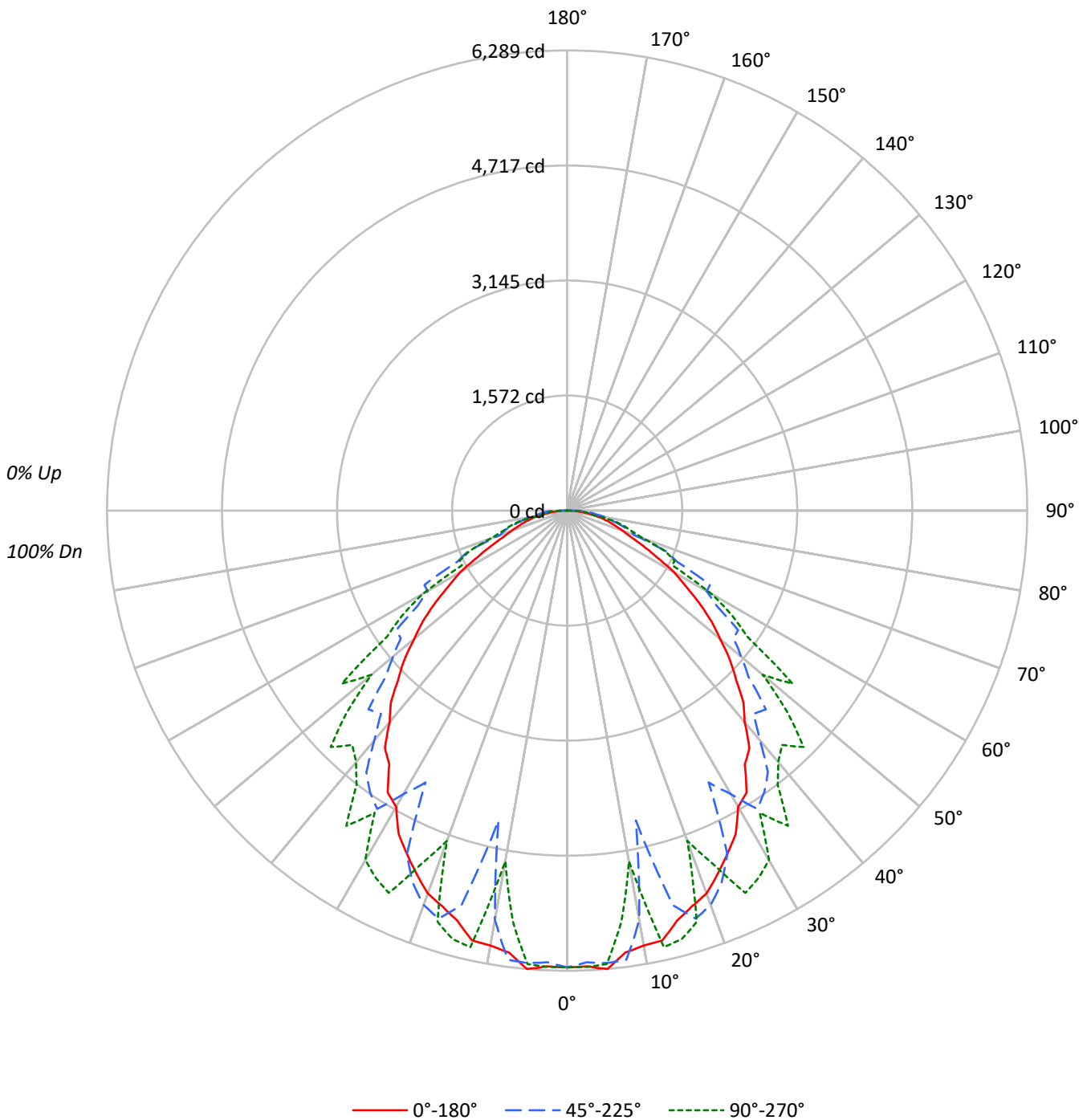
Lumens per Lamp: N/A
Luminaire Lumens: 15169.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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-TWBWG-UNV-L850-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-TWBWG-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18327	18327	18327
5°	18492	18140	18160
10°	17910	16657	14230
15°	17517	16545	17899
20°	17237	17318	14424
25°	16578	16069	17773
30°	15620	14369	17585
35°	14921	15782	17513
40°	14165	14548	15748
45°	13227	14568	17108
50°	12110	12744	14098
55°	10874	12854	13292
60°	9495	11097	11237
65°	7580	9558	9117
70°	6474	6626	7242
75°	6077	6328	6439
80°	5484	5908	3817
85°	4820	5244	3629



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.3	3.8
10°-20°	1597.4	10.5
20°-30°	2309.4	15.2
30°-40°	2892.3	19.1
40°-50°	2815.5	18.6
50°-60°	2410.0	15.9
60°-70°	1495.0	9.9
70°-80°	777.9	5.1
80°-90°	302.2	2.0
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°	4476.1	29.5
0°-40°	7368.4	48.6
0°-60°	12593.8	83.0
0°-90°	15169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6243	6243	6243	6243	6243	
5°	6289	6270	6207	6182	6221	587
15°	5802	5824	5582	6093	6062	1643
25°	5178	4292	5180	5326	5766	2379
35°	4236	4415	4696	4658	5260	2677
45°	3266	2932	3842	3929	4570	2526
55°	2200	2409	2852	3404	3002	1968
65°	1150	1290	1656	1402	1620	1167
75°	586	680	755	811	799	620
85°	184	244	324	373	242	197
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6243.0	6243.0	6243.0	6243.0	6243.0
2.5°	6235.8	6209.2	6180.1	6230.9	6240.6
5°	6289.0	6269.7	6206.7	6182.5	6221.3
7.5°	6093.0	6134.1	6192.2	5877.5	5674.2
10°	6034.9	6013.1	5681.4	4374.2	4865.7
12.5°	6015.5	5988.9	4337.9	6080.9	6109.9
15°	5802.5	5824.3	5582.2	6093.0	6061.5
17.5°	5671.8	5371.6	5846.0	5947.7	5892.0
20°	5567.7	4681.7	5734.7	5463.6	4800.3
22.5°	5376.4	3991.8	5512.0	4383.9	5236.0
25°	5177.9	4291.9	5180.3	5325.6	5766.2
27.5°	4986.7	4863.2	4190.3	5558.0	5662.1
30°	4674.4	4822.1	4471.1	5441.8	5514.4
32.5°	4565.5	4604.2	4834.2	5139.2	4897.1
35°	4236.3	4415.4	4696.2	4657.5	5260.2
37.5°	4091.0	4141.9	4507.4	4904.4	4725.3
40°	3773.9	3851.4	4098.3	4333.1	4485.6
42.5°	3568.1	3309.1	3766.6	4200.0	4345.2
45°	3265.6	2931.5	3841.7	3928.8	4570.3
47.5°	3018.6	2912.1	3362.4	4088.6	4088.6
50°	2730.6	2871.0	3105.8	3652.9	3488.3
52.5°	2483.7	2674.9	2866.1	3176.0	3885.3
55°	2200.4	2408.6	2851.6	3403.5	3001.7
57.5°	1922.1	2098.8	2420.7	2607.1	2677.3
60°	1687.2	1859.1	2200.4	2343.3	2275.5
62.5°	1384.7	1602.5	2200.4	1847.0	1619.5
65°	1149.8	1290.2	1655.8	1401.6	1619.5
67.5°	944.1	1089.3	1471.8	1353.2	1442.8
70°	806.1	910.2	973.1	1210.4	1096.6
72.5°	689.9	764.9	890.8	915.0	910.2
75°	585.8	680.2	755.3	810.9	798.8
77.5°	486.6	619.7	622.1	745.6	648.8
80°	370.4	423.6	537.4	486.6	365.5
82.5°	271.1	331.6	409.1	421.2	322.0
85°	184.0	244.5	324.4	372.8	242.1
87.5°	84.7	167.0	263.9	334.1	220.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)