

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: P730591

Luminaire Tested: **HBLED-LD5-18SE-N-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17228.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

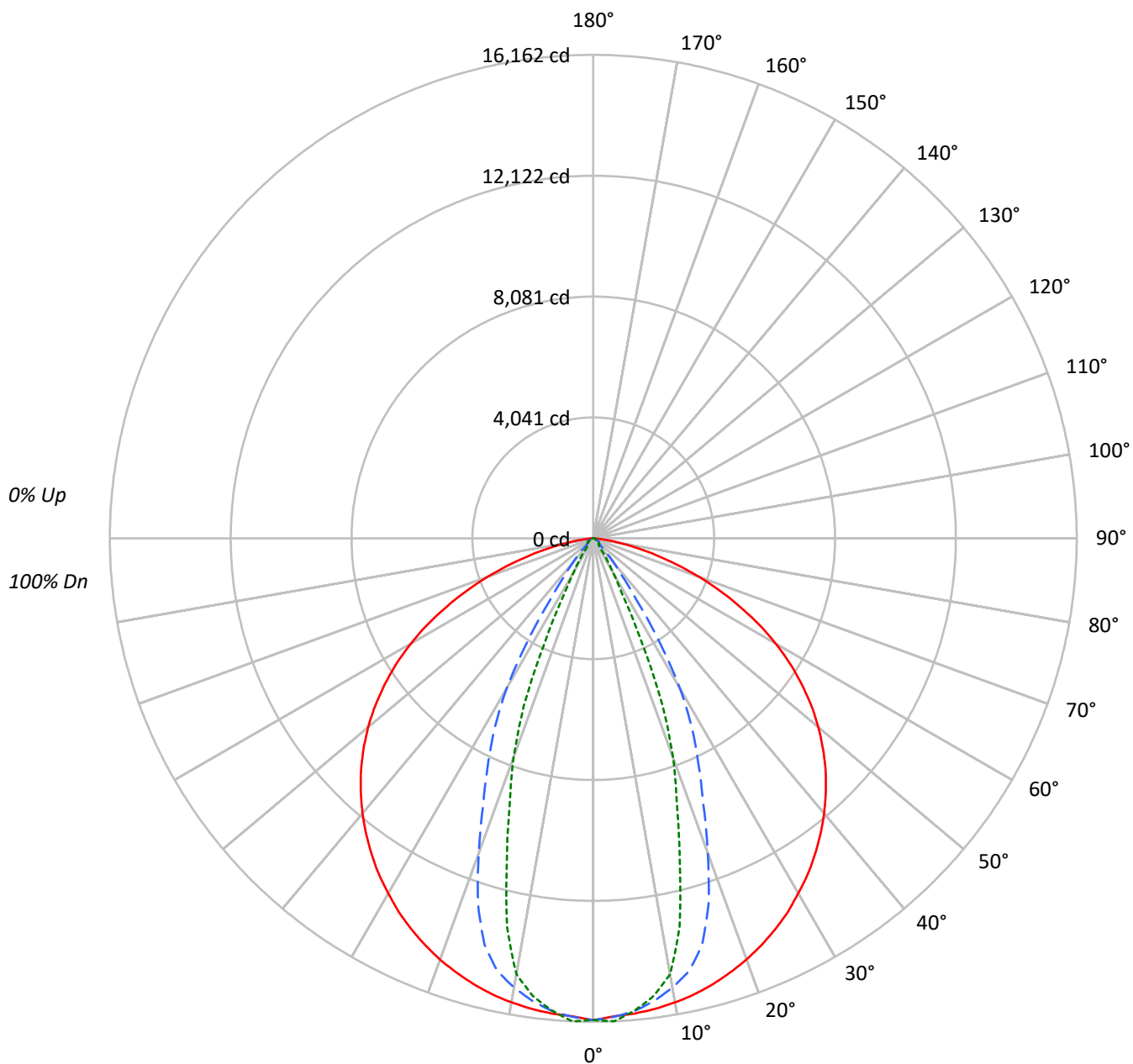
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730591

CATALOG NUMBER: HBLED-LD5-18SE-N-CL-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730591

CATALOG NUMBER: HBLED-LD5-18SE-N-CL-UNV-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26009	26009	26009
5°	25849	25714	25695
10°	25832	25003	24265
15°	25802	23512	18658
20°	25752	19241	13383
25°	25671	14825	6801
30°	25549	10819	2474
35°	25458	4968	861
40°	25302	2255	594
45°	25077	841	602
50°	24677	611	634
55°	23946	643	483
60°	22756	687	426
65°	20637	523	347
70°	17694	377	319
75°	13524	334	304
80°	8462	314	330
85°	2673	367	443



TEST NUMBER: P730591

CATALOG NUMBER: HBLED-LD5-18SE-N-CL-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.7	8.7
10°-20°	3777.9	21.9
20°-30°	4114.3	23.9
30°-40°	3077.7	17.9
40°-50°	2212.9	12.8
50°-60°	1359.1	7.9
60°-70°	782.0	4.5
70°-80°	349.1	2.0
80°-90°	55.4	0.3
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°	9391.9	54.5
0°-40°	12469.5	72.4
0°-60°	16041.6	93.1
0°-90°	17228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16109	16109	16109	16109	16109	
5°	15949	16024	15866	15880	15854	###
15°	15436	15140	14066	12080	11162	4357
25°	14410	13376	8321	5339	3817	6642
35°	12916	9264	2521	741	437	8079
45°	10982	5205	368	273	264	8460
55°	8507	1082	228	221	172	7584
65°	5402	119	137	114	91	5347
75°	2168	72	54	55	49	2353
85°	144	14	20	26	24	287
90°	0	0	0	0	0	



TEST NUMBER: P730591

CATALOG NUMBER: HBLED-LD5-18SE-N-CL-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16108.6	16108.6	16108.6	16108.6	16108.6
2.5°	15996.5	16101.2	16013.0	16092.1	16162.2
5°	15948.7	16023.7	15865.5	15880.3	15853.9
7.5°	15866.3	15884.4	15598.4	15487.9	15434.3
10°	15755.8	15707.2	15250.5	14987.6	14800.5
12.5°	15616.5	15455.8	14817.7	13878.9	13319.2
15°	15436.0	15140.1	14066.0	12080.3	11161.9
17.5°	15220.9	14810.3	12821.3	10068.1	9273.5
20°	14987.6	14446.0	11198.2	8560.5	7788.9
22.5°	14712.3	13980.3	9597.4	7119.5	6060.3
25°	14409.7	13376.1	8321.4	5339.1	3817.4
27.5°	14083.3	12578.9	7140.1	3274.1	2064.1
30°	13704.1	11608.7	5803.1	1837.4	1327.1
32.5°	13334.0	10477.8	4145.5	1224.1	848.2
35°	12916.1	9263.6	2520.7	741.1	436.9
37.5°	12473.4	8159.8	1577.7	403.1	301.7
40°	12004.4	7112.9	1069.9	286.1	281.9
42.5°	11503.2	6165.8	670.1	272.0	281.1
45°	10982.3	5204.7	368.5	272.9	263.8
47.5°	10416.8	4161.1	257.2	258.0	257.2
50°	9824.1	2984.8	243.2	254.7	252.3
52.5°	9185.3	1853.1	244.0	248.9	223.4
55°	8506.9	1081.5	228.3	220.9	171.5
57.5°	7793.8	674.3	223.4	182.2	154.1
60°	7047.0	356.1	212.7	164.1	131.9
62.5°	6251.5	175.6	170.6	140.1	108.0
65°	5401.7	118.7	136.9	113.7	90.7
67.5°	4580.7	107.1	103.1	93.1	79.1
70°	3748.1	98.1	79.9	81.6	67.6
72.5°	2931.3	89.0	64.3	70.1	56.9
75°	2167.9	71.7	53.6	55.2	48.7
77.5°	1508.5	56.1	42.1	47.0	45.3
80°	910.1	35.5	33.8	38.7	35.5
82.5°	441.0	23.1	26.4	30.5	28.0
85°	144.3	14.0	19.8	25.5	23.9
87.5°	18.1	8.3	16.5	22.3	20.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)