

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: P730516

Luminaire Tested: **HBLED-LD5-18HE-N-CL-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730516
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-LD5-18HE-N-CL-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18443.0 lumens
Efficiency: N/A
Efficacy: 167.4 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

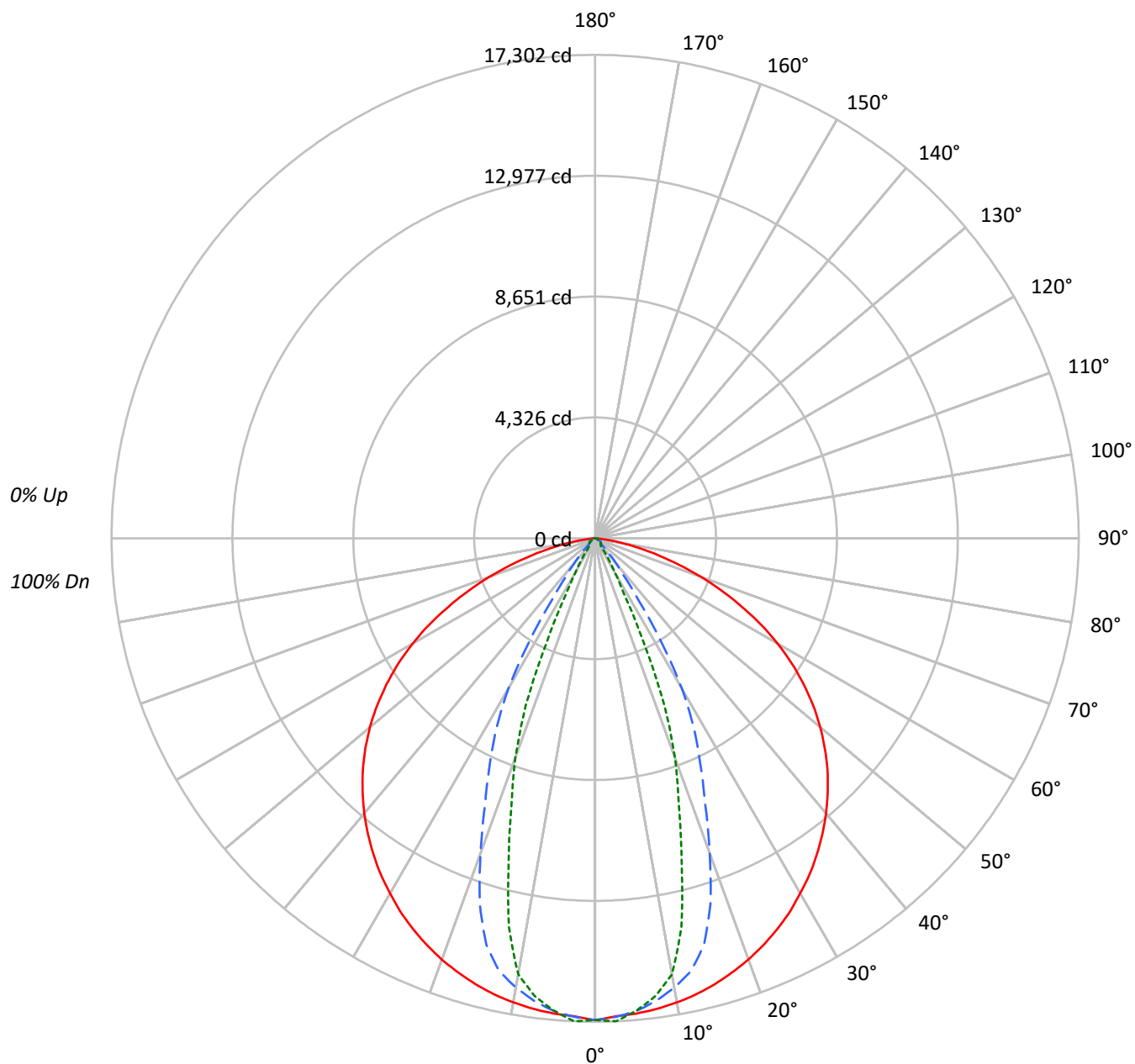
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730516

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P730516

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L750

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°	27843	27843	27843
5°	27672	27528	27507
10°	27653	26767	25977
15°	27622	25170	19973
20°	27568	20598	14327
25°	27481	15870	7280
30°	27351	11582	2649
35°	27254	5319	922
40°	27086	2414	636
45°	26845	901	645
50°	26417	654	678
55°	25635	688	517
60°	24361	735	456
65°	22092	560	371
70°	18942	404	342
75°	14478	358	325
80°	9059	337	353
85°	2860	393	474



TEST NUMBER: P730516

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1605.5	8.7
10°-20°	4044.3	21.9
20°-30°	4404.4	23.9
30°-40°	3294.7	17.9
40°-50°	2369.0	12.8
50°-60°	1454.9	7.9
60°-70°	837.2	4.5
70°-80°	373.7	2.0
80°-90°	59.3	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°	10054.2	54.5
0°-40°	13348.9	72.4
0°-60°	17172.9	93.1
0°-90°	18443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17245	17245	17245	17245	17245	
5°	17074	17154	16984	17000	16972	###
15°	16525	16208	15058	12932	11949	4665
25°	15426	14319	8908	5716	4087	7111
35°	13827	9917	2698	793	468	8649
45°	11757	5572	394	292	282	9057
55°	9107	1158	244	236	184	8119
65°	5783	127	146	122	97	5724
75°	2321	77	57	59	52	2518
85°	154	15	21	27	26	308
90°	0	0	0	0	0	



TEST NUMBER: P730516

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17244.7	17244.7	17244.7	17244.7	17244.7
2.5°	17124.7	17236.7	17142.3	17227.0	17302.0
5°	17073.5	17153.8	16984.4	17000.2	16972.0
7.5°	16985.2	17004.6	16698.5	16580.2	16522.8
10°	16867.0	16814.9	16326.1	16044.6	15844.3
12.5°	16717.9	16545.8	15862.7	14857.7	14258.5
15°	16524.6	16207.8	15058.0	12932.2	11949.1
17.5°	16294.3	15854.8	13725.5	10778.1	9927.5
20°	16044.6	15464.8	11987.9	9164.2	8338.2
22.5°	15749.9	14966.2	10274.3	7621.6	6487.7
25°	15426.0	14319.4	8908.3	5715.6	4086.6
27.5°	15076.6	13466.1	7643.7	3505.0	2209.6
30°	14670.6	12427.4	6212.4	1967.0	1420.7
32.5°	14274.4	11216.7	4437.8	1310.4	908.0
35°	13827.0	9916.9	2698.5	793.3	467.7
37.5°	13353.1	8735.3	1689.0	431.5	322.9
40°	12851.0	7614.6	1145.4	306.2	301.8
42.5°	12314.5	6600.6	717.4	291.2	300.9
45°	11756.8	5571.7	394.5	292.1	282.4
47.5°	11151.4	4454.6	275.3	276.2	275.3
50°	10517.0	3195.3	260.4	272.7	270.1
52.5°	9833.1	1983.8	261.2	266.5	239.2
55°	9106.8	1157.7	244.4	236.5	183.6
57.5°	8343.4	721.8	239.2	195.1	165.0
60°	7544.0	381.3	227.7	175.6	141.2
62.5°	6692.4	188.0	182.6	150.0	115.6
65°	5782.6	127.1	146.5	121.7	97.1
67.5°	4903.7	114.7	110.3	99.7	84.7
70°	4012.5	105.0	85.6	87.4	72.4
72.5°	3138.0	95.3	68.8	75.0	60.9
75°	2320.8	76.8	57.4	59.1	52.1
77.5°	1614.8	60.0	45.0	50.3	48.5
80°	974.3	38.0	36.2	41.5	38.0
82.5°	472.1	24.7	28.3	32.6	30.0
85°	154.4	15.0	21.2	27.3	25.6
87.5°	19.4	8.9	17.6	23.8	22.1
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)