

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: P730897

Luminaire Tested: **HBLED-LD5-30SE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-UNV-L850
Description: 30000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30786.0 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

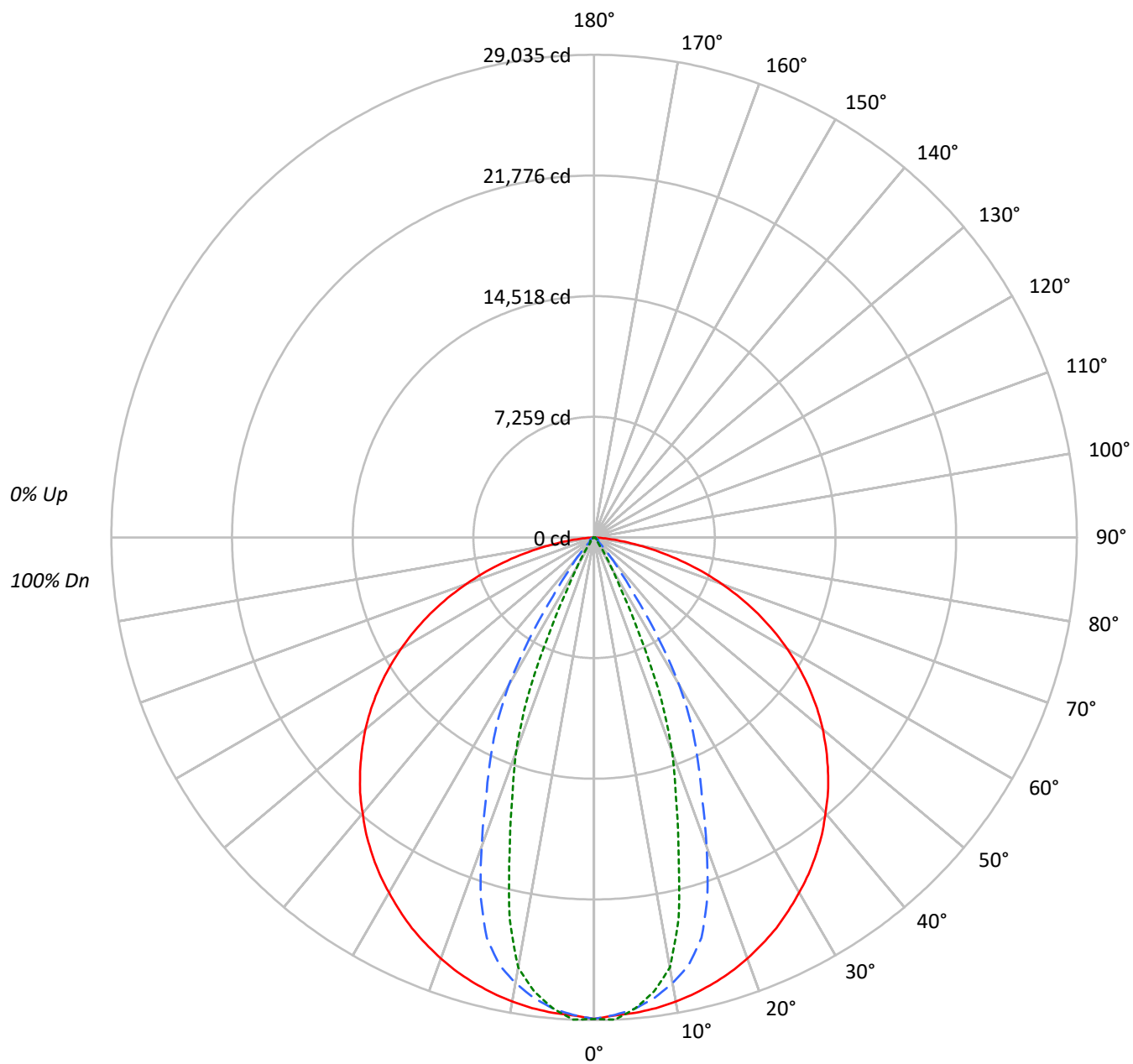
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46766	46766	46766
5°	46516	46105	46085
10°	46487	44628	43062
15°	46421	41693	32773
20°	46313	33988	23590
25°	46196	26280	11621
30°	45991	19100	3769
35°	45883	8474	970
40°	45642	3441	653
45°	45438	966	695
50°	45084	685	772
55°	44435	814	330
60°	43338	908	200
65°	41555	579	237
70°	38605	514	293
75°	33772	387	404
80°	25252	474	576
85°	12508	611	765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2688.0	8.7
10°-20°	6721.3	21.8
20°-30°	7280.2	23.6
30°-40°	5391.3	17.5
40°-50°	3883.1	12.6
50°-60°	2404.4	7.8
60°-70°	1478.7	4.8
70°-80°	779.5	2.5
80°-90°	159.6	0.5
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°	16689.5	54.2
0°-40°	22080.8	71.7
0°-60°	28368.3	92.1
0°-90°	30786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28965	28965	28965	28965	28965	
5°	28700	28806	28447	28467	28434	###
15°	27772	27127	24943	21212	19606	7840
25°	25931	23752	14752	9280	6523	11948
35°	23278	16411	4299	1011	492	14563
45°	19900	9246	423	306	304	15347
55°	15785	1904	289	262	117	14092
65°	10877	201	152	96	62	10732
75°	5414	47	62	81	65	5718
85°	675	18	33	50	41	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28964.9	28964.9	28964.9	28964.9	28964.9
2.5°	28778.8	28962.2	28745.8	28907.1	29035.2
5°	28700.3	28806.4	28446.8	28467.4	28434.4
7.5°	28562.5	28537.7	27932.8	27668.3	27552.6
10°	28354.5	28190.5	27220.5	26668.0	26265.6
12.5°	28085.8	27719.3	26331.8	24574.9	23483.6
15°	27771.6	27126.8	24942.8	21211.5	19606.2
17.5°	27396.8	26483.3	22672.0	17777.7	16344.7
20°	26954.5	25765.4	19781.1	15125.3	13729.5
22.5°	26461.2	24891.8	16973.1	12570.6	10579.5
25°	25930.7	23752.3	14751.8	9280.1	6523.0
27.5°	25317.6	22287.6	12668.4	5466.2	3329.1
30°	24668.6	20523.8	10244.7	2940.4	2021.4
32.5°	24014.1	18524.5	7249.1	1836.7	1146.4
35°	23278.3	16410.8	4299.0	1011.4	492.0
37.5°	22510.7	14473.5	2540.8	460.3	315.6
40°	21655.1	12702.9	1632.8	305.8	310.0
42.5°	20828.4	11052.2	919.1	301.7	307.3
45°	19899.6	9245.7	423.0	305.8	304.5
47.5°	18939.2	7373.1	274.1	308.6	308.6
50°	17948.6	5271.9	272.8	315.6	307.3
52.5°	16902.8	3289.1	283.9	314.2	252.2
55°	15785.3	1904.3	289.3	261.8	117.2
57.5°	14627.8	1123.0	292.1	150.2	66.2
60°	13420.7	621.4	281.1	111.6	62.0
62.5°	12176.5	296.2	221.8	104.8	60.6
65°	10877.1	201.2	151.5	96.4	62.0
67.5°	9528.2	155.6	119.8	90.9	63.4
70°	8177.8	115.7	108.9	90.9	62.0
72.5°	6805.5	78.6	90.9	92.3	62.0
75°	5413.7	46.9	62.0	81.4	64.7
77.5°	4034.5	28.9	48.2	84.0	78.6
80°	2715.8	24.8	51.0	78.6	62.0
82.5°	1594.3	22.1	49.7	60.6	49.7
85°	675.2	18.0	33.0	49.7	41.3
87.5°	126.8	15.2	26.2	39.9	35.8
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)