

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: P730818

Luminaire Tested: **HBLED-LD5-30HE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLI-UNV-L840
Description: 30000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28022.0 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

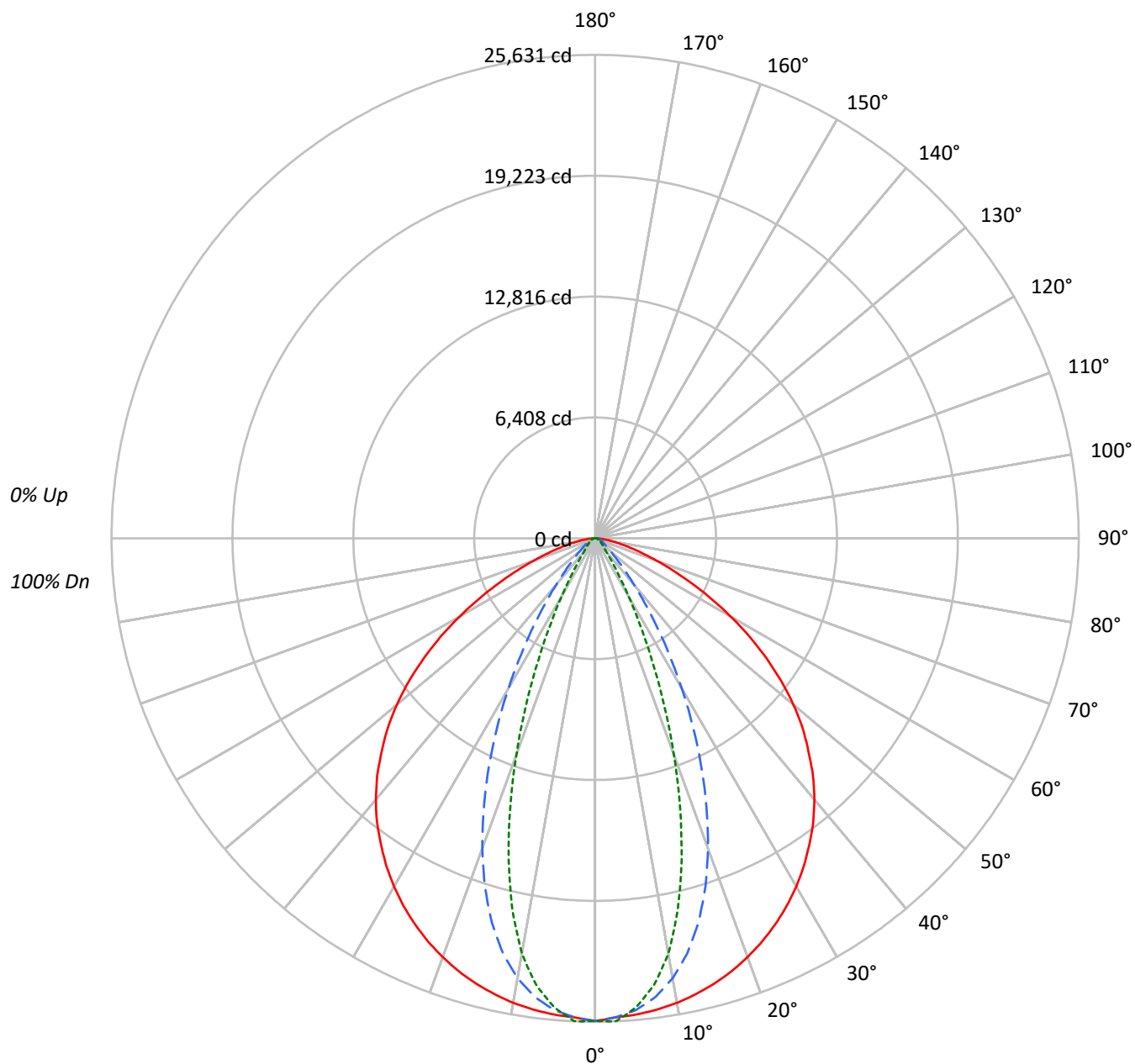
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41327	41327	41327
5°	41079	40670	40456
10°	41010	38828	36640
15°	40845	35294	29591
20°	40600	30032	20973
25°	40236	23681	12671
30°	39748	17091	6512
35°	39030	11174	3252
40°	38104	6712	1898
45°	36521	4008	1419
50°	34446	2621	1192
55°	31176	1988	1040
60°	26791	1693	949
65°	21550	1545	896
70°	16235	1655	891
75°	11942	1573	916
80°	8736	1567	1003
85°	6545	1899	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2357.2	8.4
10°-20°	5864.4	20.9
20°-30°	6495.7	23.2
30°-40°	5204.2	18.6
40°-50°	3715.1	13.3
50°-60°	2386.3	8.5
60°-70°	1293.2	4.6
70°-80°	552.7	2.0
80°-90°	153.3	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°	14717.3	52.5
0°-40°	19921.4	71.1
0°-60°	26022.8	92.9
0°-90°	28022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25596	25596	25596	25596	25596	
5°	25345	25440	25093	25014	24961	###
15°	24435	23671	21115	18660	17703	6894
25°	22586	19915	13293	8661	7113	10405
35°	19802	14323	5669	2286	1650	12381
45°	15994	8268	1755	747	622	12328
55°	11075	3697	706	434	369	9870
65°	5641	1518	404	279	235	5649
75°	1914	556	252	175	147	2127
85°	353	147	102	85	70	431
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25596.0	25596.0	25596.0	25596.0	25596.0
2.5°	25427.5	25586.7	25415.3	25521.9	25631.0
5°	25345.3	25439.7	25093.2	25013.6	24961.1
7.5°	25202.3	25175.4	24524.3	24102.3	23898.7
10°	25013.6	24795.2	23683.0	22755.5	22348.4
12.5°	24744.0	24293.8	22543.8	20915.2	20225.0
15°	24435.3	23670.9	21114.8	18659.9	17702.6
17.5°	24065.9	22942.9	19406.6	16241.3	14978.0
20°	23629.1	22063.9	17478.9	13671.6	12206.2
22.5°	23141.1	21050.1	15414.8	11110.1	9538.3
25°	22585.6	19914.9	13292.9	8660.6	7112.8
27.5°	21985.8	18654.5	11183.0	6471.2	5059.6
30°	21319.7	17290.1	9167.4	4666.0	3493.1
32.5°	20593.0	15839.5	7294.9	3281.4	2389.0
35°	19801.7	14322.8	5668.9	2286.4	1650.1
37.5°	18991.4	12775.1	4281.7	1616.4	1183.7
40°	18078.7	11232.8	3184.4	1183.7	900.5
42.5°	17098.7	9720.2	2356.6	911.3	729.3
45°	15994.5	8268.2	1755.3	746.9	621.6
47.5°	14924.1	6914.7	1333.3	636.3	540.6
50°	13713.5	5693.3	1043.5	555.5	474.5
52.5°	12428.7	4618.8	846.6	489.4	417.9
55°	11075.1	3696.6	706.4	434.1	369.4
57.5°	9704.0	2928.1	604.0	386.9	329.0
60°	8296.6	2341.7	524.4	346.4	293.8
62.5°	6922.8	1872.6	458.3	311.4	262.9
65°	5640.7	1518.0	404.4	279.1	234.6
67.5°	4455.6	1199.9	377.5	250.7	211.7
70°	3439.1	934.3	350.6	223.8	188.8
72.5°	2605.9	717.3	310.1	199.5	167.2
75°	1914.3	555.5	252.1	175.3	146.9
77.5°	1369.8	427.4	204.9	152.3	126.8
80°	939.6	318.2	168.5	130.8	107.9
82.5°	610.8	225.2	136.1	107.9	88.9
85°	353.3	146.9	102.5	84.9	70.1
87.5°	152.3	80.8	70.1	63.4	53.9
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)