

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: P730890

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730890
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-LD5-30SE-N-CLI-UNV-L840
Description: 30000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27936.0 lumens
Efficiency: N/A
Efficacy: 147.0 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

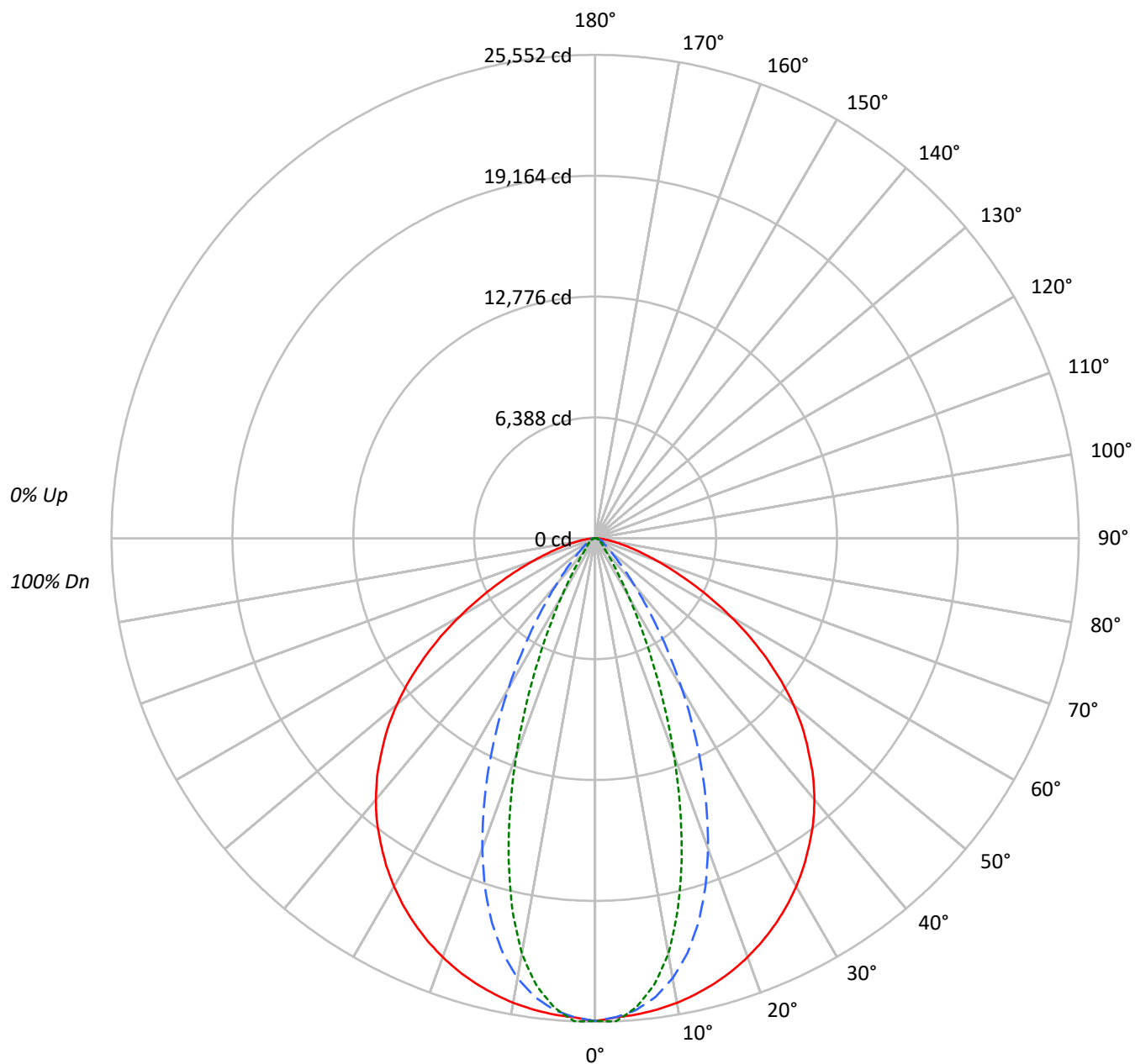
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	41200	41200	41200
5°	40952	40545	40332
10°	40884	38709	36528
15°	40719	35186	29500
20°	40475	29940	20908
25°	40113	23609	12633
30°	39626	17039	6492
35°	38910	11139	3243
40°	37987	6691	1892
45°	36409	3996	1415
50°	34341	2613	1188
55°	31080	1982	1037
60°	26709	1688	946
65°	21484	1540	893
70°	16185	1650	888
75°	11905	1568	914
80°	8710	1562	1000
85°	6525	1893	1293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2350.0	8.4
10°-20°	5846.4	20.9
20°-30°	6475.7	23.2
30°-40°	5188.2	18.6
40°-50°	3703.7	13.3
50°-60°	2378.9	8.5
60°-70°	1289.2	4.6
70°-80°	551.1	2.0
80°-90°	152.8	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°	14672.1	52.5
0°-40°	19860.3	71.1
0°-60°	25942.9	92.9
0°-90°	27936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25518	25518	25518	25518	25518	
5°	25268	25362	25016	24937	24884	###
15°	24360	23598	21050	18603	17648	6873
25°	22516	19854	13252	8634	7091	10373
35°	19741	14279	5652	2279	1645	12343
45°	15945	8243	1750	745	620	12290
55°	11041	3685	704	433	368	9840
65°	5623	1513	403	278	234	5631
75°	1908	554	251	175	146	2121
85°	352	146	102	85	70	430
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25517.5	25517.5	25517.5	25517.5	25517.5
2.5°	25349.5	25508.1	25337.3	25443.5	25552.4
5°	25267.5	25361.7	25016.1	24936.8	24884.5
7.5°	25125.0	25098.1	24449.1	24028.3	23825.3
10°	24936.8	24719.1	23610.3	22685.7	22279.8
12.5°	24668.1	24219.2	22474.6	20851.1	20163.0
15°	24360.3	23598.3	21050.0	18602.6	17648.3
17.5°	23992.0	22872.5	19347.1	16191.4	14932.0
20°	23556.6	21996.2	17425.2	13629.7	12168.7
22.5°	23070.1	20985.5	15367.5	11076.0	9509.0
25°	22516.3	19853.8	13252.1	8634.0	7091.0
27.5°	21918.3	18597.2	11148.7	6451.3	5044.0
30°	21254.3	17237.0	9139.3	4651.7	3482.4
32.5°	20529.8	15790.9	7272.5	3271.3	2381.6
35°	19741.0	14278.9	5651.5	2279.4	1645.1
37.5°	18933.1	12735.9	4268.6	1611.4	1180.1
40°	18023.2	11198.3	3174.6	1180.1	897.7
42.5°	17046.2	9690.4	2349.4	908.5	727.1
45°	15945.4	8242.8	1750.0	744.6	619.7
47.5°	14878.3	6893.5	1329.2	634.4	538.9
50°	13671.4	5675.8	1040.2	553.8	473.0
52.5°	12390.5	4604.6	844.0	487.9	416.6
55°	11041.1	3685.3	704.2	432.8	368.3
57.5°	9674.3	2919.1	602.1	385.7	328.0
60°	8271.1	2334.5	522.8	345.4	292.9
62.5°	6901.6	1866.9	456.9	310.5	262.1
65°	5623.4	1513.3	403.2	278.2	233.8
67.5°	4441.9	1196.2	376.3	250.0	211.1
70°	3428.5	931.4	349.5	223.1	188.2
72.5°	2597.9	715.1	309.2	198.9	166.7
75°	1908.4	553.8	251.4	174.7	146.5
77.5°	1365.6	426.1	204.3	151.8	126.4
80°	936.8	317.2	168.0	130.3	107.6
82.5°	608.9	224.5	135.7	107.6	88.6
85°	352.2	146.5	102.2	84.7	69.8
87.5°	151.8	80.6	69.8	63.2	53.7
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)