

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: P730896

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730896
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-L840
Description: 30000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30194.0 lumens
Efficiency: N/A
Efficacy: 158.9 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

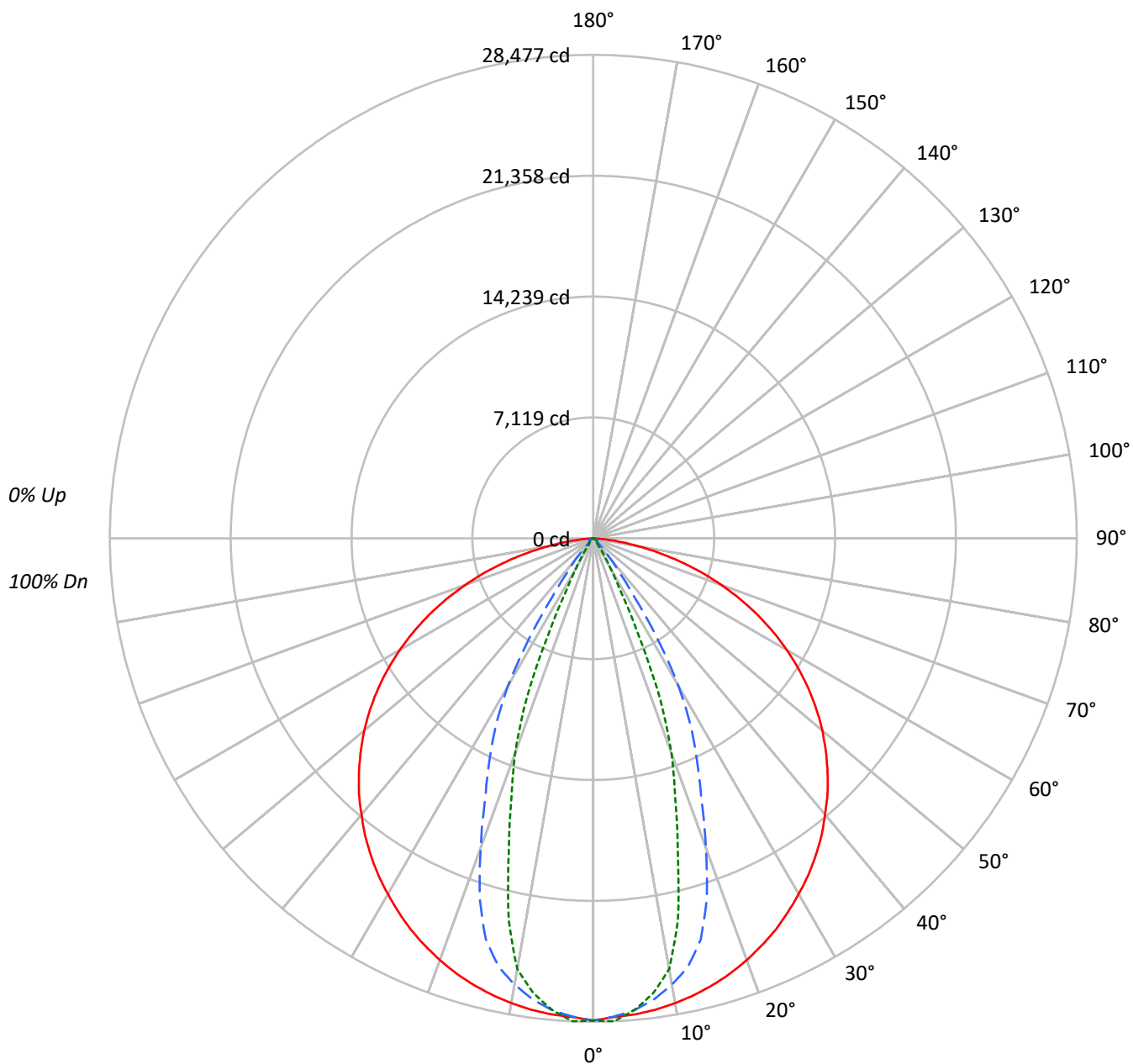
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	45867	45867	45867
5°	45622	45219	45199
10°	45593	43770	42234
15°	45529	40891	32142
20°	45423	33334	23137
25°	45307	25775	11397
30°	45107	18733	3696
35°	45000	8311	951
40°	44765	3375	641
45°	44564	947	682
50°	44217	672	757
55°	43580	799	323
60°	42504	890	197
65°	40756	568	233
70°	37863	504	287
75°	33123	380	396
80°	24766	465	566
85°	12267	600	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2636.3	8.7
10°-20°	6592.0	21.8
20°-30°	7140.2	23.6
30°-40°	5287.6	17.5
40°-50°	3808.5	12.6
50°-60°	2358.2	7.8
60°-70°	1450.2	4.8
70°-80°	764.5	2.5
80°-90°	156.5	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°	16368.5	54.2
0°-40°	21656.2	71.7
0°-60°	27822.8	92.1
0°-90°	30194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28408	28408	28408	28408	28408	
5°	28148	28252	27900	27920	27888	###
15°	27238	26605	24463	20804	19229	7689
25°	25432	23296	14468	9102	6398	11718
35°	22831	16095	4216	992	482	14283
45°	19517	9068	415	300	299	15052
55°	15482	1868	284	257	115	13821
65°	10668	197	149	94	61	10526
75°	5310	46	61	80	64	5608
85°	662	18	32	49	40	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28407.9	28407.9	28407.9	28407.9	28407.9
2.5°	28225.4	28405.3	28193.1	28351.2	28476.8
5°	28148.4	28252.5	27899.8	27920.0	27887.6
7.5°	28013.2	27989.0	27395.7	27136.2	27022.8
10°	27809.3	27648.4	26697.1	26155.1	25760.5
12.5°	27545.7	27186.2	25825.4	24102.3	23032.1
15°	27237.6	26605.1	24463.1	20803.6	19229.1
17.5°	26870.0	25974.0	22236.0	17435.8	16030.4
20°	26436.2	25269.9	19400.7	14834.4	13465.5
22.5°	25952.3	24413.1	16646.7	12328.9	10376.1
25°	25432.1	23295.6	14468.1	9101.7	6397.5
27.5°	24830.7	21859.0	12424.8	5361.1	3265.0
30°	24194.3	20129.1	10047.7	2883.9	1982.6
32.5°	23552.3	18168.3	7109.7	1801.4	1124.3
35°	22830.7	16095.2	4216.4	991.9	482.5
37.5°	22077.9	14195.2	2492.0	451.4	309.5
40°	21238.7	12458.7	1601.4	300.0	304.0
42.5°	20427.9	10839.7	901.4	295.9	301.4
45°	19516.9	9067.9	414.9	300.0	298.6
47.5°	18575.0	7231.3	268.9	302.7	302.7
50°	17603.5	5170.5	267.6	309.5	301.4
52.5°	16577.7	3225.9	278.4	308.2	247.3
55°	15481.7	1867.6	283.8	256.7	114.9
57.5°	14346.5	1101.4	286.5	147.3	64.9
60°	13162.6	609.4	275.7	109.4	60.9
62.5°	11942.3	290.6	217.6	102.8	59.4
65°	10667.9	197.3	148.6	94.5	60.9
67.5°	9345.0	152.7	117.5	89.2	62.2
70°	8020.6	113.5	106.8	89.2	60.9
72.5°	6674.6	77.0	89.2	90.5	60.9
75°	5309.6	46.0	60.9	79.8	63.5
77.5°	3956.9	28.3	47.3	82.4	77.0
80°	2663.6	24.3	50.0	77.0	60.9
82.5°	1563.6	21.7	48.7	59.4	48.7
85°	662.2	17.6	32.4	48.7	40.5
87.5°	124.3	14.9	25.7	39.2	35.1
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)