

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: P730893

Luminaire Tested: **HBLED-LD5-30SE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730893
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-L740
Description: 30000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31632.0 lumens
Efficiency: N/A
Efficacy: 166.5 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

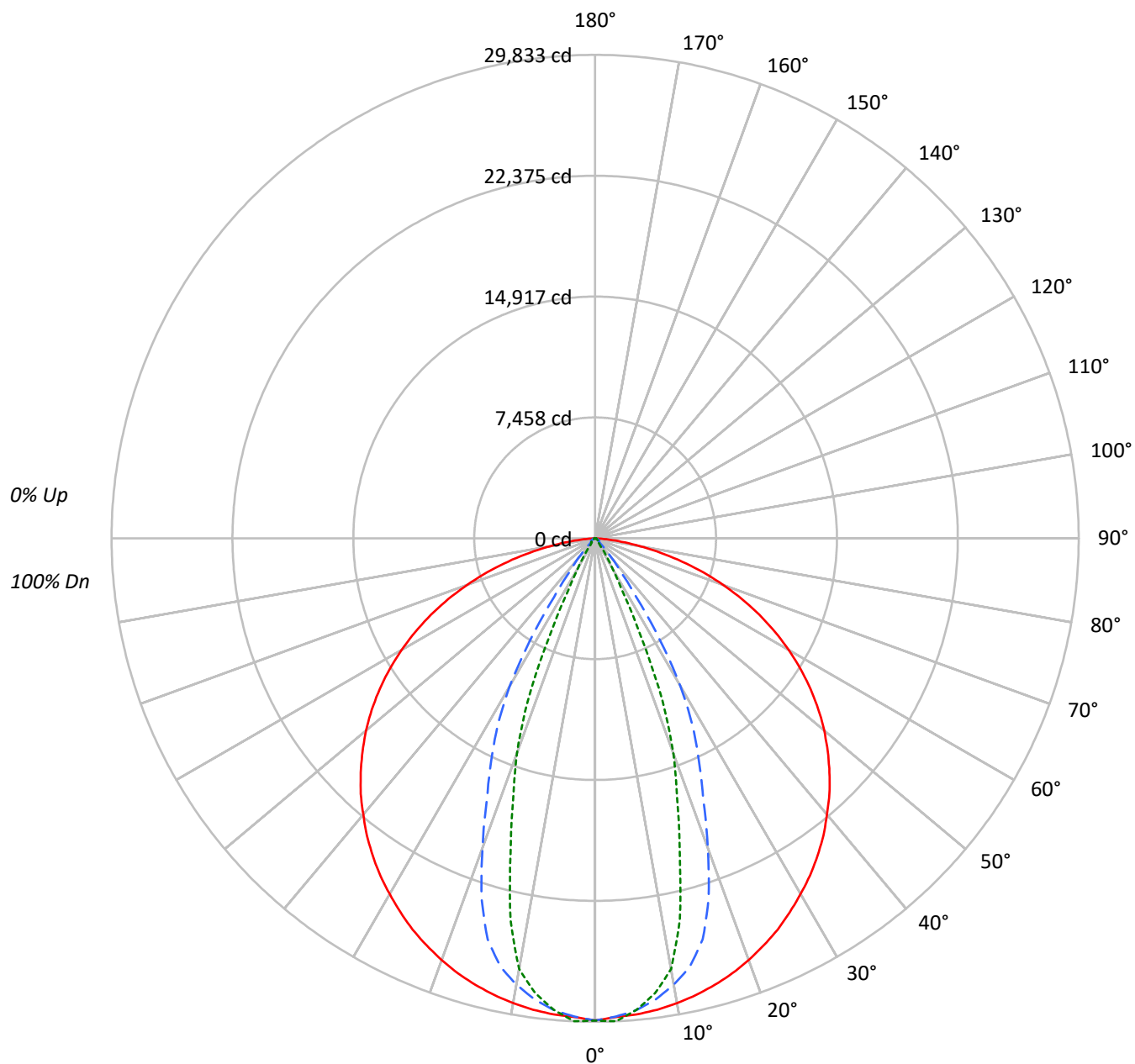
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	48051	48051	48051
5°	47794	47372	47352
10°	47765	45854	44246
15°	47697	42839	33673
20°	47586	34922	24238
25°	47465	27003	11940
30°	47255	19625	3872
35°	47144	8707	996
40°	46897	3536	671
45°	46687	992	714
50°	46323	704	793
55°	45656	837	339
60°	44529	933	206
65°	42697	595	244
70°	39666	528	301
75°	34700	398	415
80°	25945	487	593
85°	12851	628	785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2761.8	8.7
10°-20°	6906.0	21.8
20°-30°	7480.2	23.6
30°-40°	5539.4	17.5
40°-50°	3989.8	12.6
50°-60°	2470.5	7.8
60°-70°	1519.3	4.8
70°-80°	800.9	2.5
80°-90°	163.9	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°	17148.1	54.2
0°-40°	22687.5	71.7
0°-60°	29147.8	92.1
0°-90°	31632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29761	29761	29761	29761	29761	
5°	29489	29598	29228	29250	29216	###
15°	28535	27872	25628	21794	20145	8055
25°	26643	24405	15157	9535	6702	12276
35°	23918	16862	4417	1039	506	14963
45°	20446	9500	435	314	313	15768
55°	16219	1957	297	269	120	14479
65°	11176	207	156	99	64	11027
75°	5562	48	64	84	66	5875
85°	694	18	34	51	42	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29760.8	29760.8	29760.8	29760.8	29760.8
2.5°	29569.7	29758.1	29535.8	29701.4	29833.0
5°	29489.0	29598.0	29228.5	29249.7	29215.8
7.5°	29347.4	29321.9	28700.4	28428.6	28309.7
10°	29133.7	28965.2	27968.5	27400.8	26987.4
12.5°	28857.6	28481.0	27055.4	25250.2	24129.0
15°	28534.8	27872.2	25628.2	21794.4	20144.9
17.5°	28149.7	27211.0	23295.0	18266.2	16793.9
20°	27695.2	26473.4	20324.7	15540.9	14106.8
22.5°	27188.3	25575.8	17439.5	12916.0	10870.2
25°	26643.3	24405.0	15157.2	9535.2	6702.2
27.5°	26013.3	22900.0	13016.6	5616.4	3420.5
30°	25346.5	21087.8	10526.2	3021.2	2077.0
32.5°	24674.0	19033.5	7448.3	1887.2	1177.9
35°	23918.0	16861.7	4417.2	1039.2	505.5
37.5°	23129.3	14871.2	2610.6	472.9	324.2
40°	22250.2	13052.0	1677.6	314.2	318.5
42.5°	21400.8	11355.9	944.4	310.0	315.7
45°	20446.4	9499.7	434.6	314.2	312.9
47.5°	19459.7	7575.7	281.7	317.1	317.1
50°	18441.8	5416.8	280.3	324.2	315.7
52.5°	17367.2	3379.5	291.7	322.9	259.1
55°	16219.0	1956.6	297.3	269.0	120.4
57.5°	15029.8	1153.8	300.1	154.3	68.0
60°	13789.5	638.5	288.8	114.6	63.8
62.5°	12511.1	304.4	227.9	107.7	62.2
65°	11176.0	206.7	155.7	99.0	63.8
67.5°	9790.0	159.9	123.1	93.4	65.1
70°	8402.6	118.9	111.9	93.4	63.8
72.5°	6992.5	80.7	93.4	94.8	63.8
75°	5562.5	48.2	63.8	83.6	66.5
77.5°	4145.3	29.7	49.5	86.3	80.7
80°	2790.4	25.4	52.4	80.7	63.8
82.5°	1638.1	22.7	51.0	62.2	51.0
85°	693.7	18.5	33.9	51.0	42.4
87.5°	130.2	15.6	27.0	41.0	36.8
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)