

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: P730823

Luminaire Tested: **HBLED-LD5-30HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730823
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-LD5-30HE-N-UNV-L835
Description: 30000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29438.0 lumens
Efficiency: N/A
Efficacy: 164.5 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

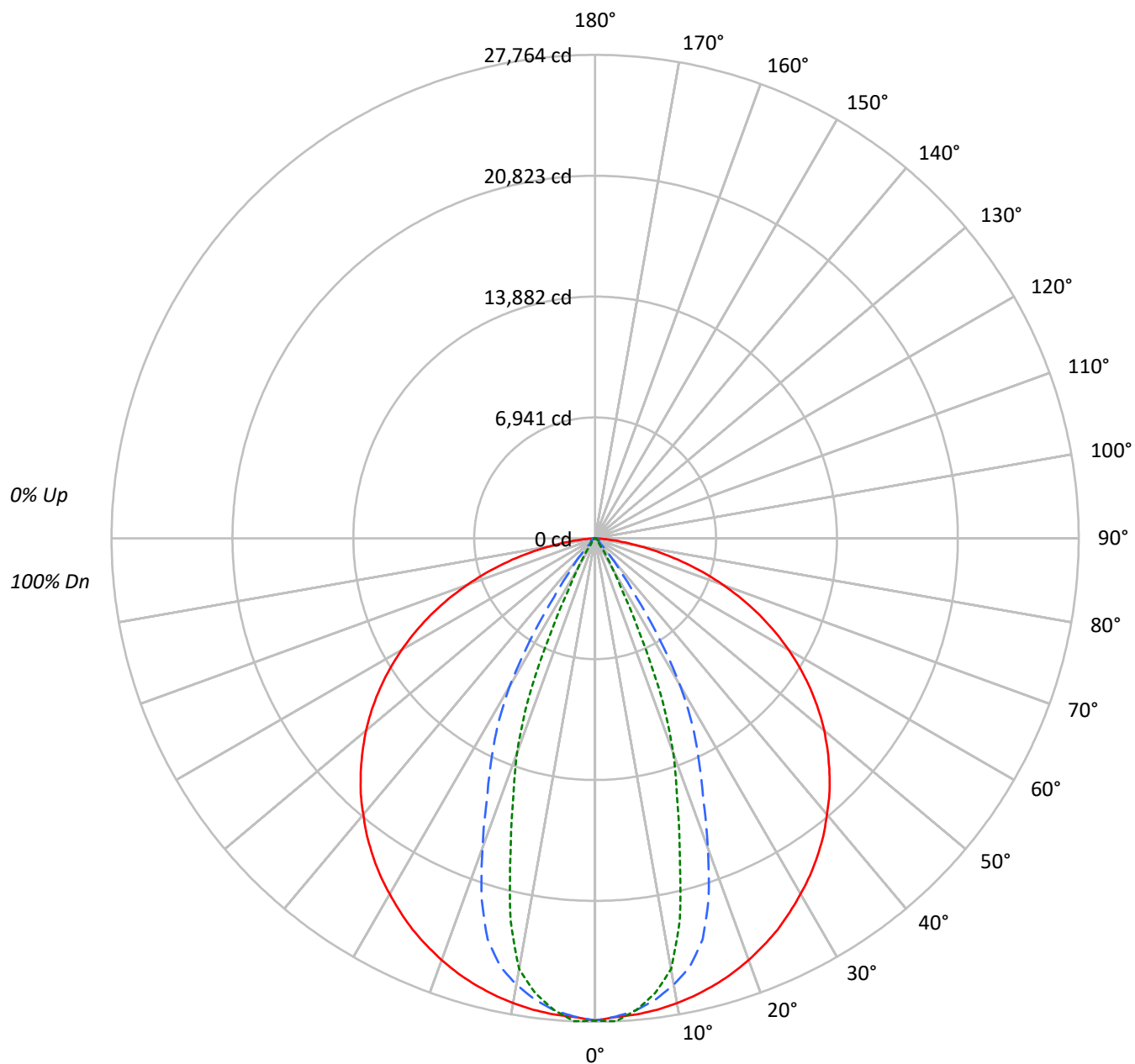
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	44719	44719	44719
5°	44479	44086	44067
10°	44452	42674	41177
15°	44389	39867	31338
20°	44285	32500	22557
25°	44173	25130	11112
30°	43978	18264	3604
35°	43874	8103	927
40°	43644	3291	625
45°	43449	924	665
50°	43110	655	738
55°	42489	779	315
60°	41440	868	191
65°	39736	554	227
70°	36915	491	280
75°	32294	370	386
80°	24146	454	551
85°	11960	585	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2570.3	8.7
10°-20°	6427.0	21.8
20°-30°	6961.4	23.6
30°-40°	5155.2	17.5
40°-50°	3713.1	12.6
50°-60°	2299.1	7.8
60°-70°	1413.9	4.8
70°-80°	745.4	2.5
80°-90°	152.6	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°	15958.7	54.2
0°-40°	21113.9	71.7
0°-60°	27126.1	92.1
0°-90°	29438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27697	27697	27697	27697	27697	
5°	27444	27545	27201	27221	27189	###
15°	26556	25939	23851	20283	18748	7496
25°	24795	22712	14106	8874	6237	11425
35°	22259	15692	4111	967	470	13926
45°	19028	8841	404	292	291	14675
55°	15094	1821	277	250	112	13475
65°	10401	192	145	92	59	10262
75°	5177	45	59	78	62	5468
85°	646	17	32	48	40	976
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27696.6	27696.6	27696.6	27696.6	27696.6
2.5°	27518.7	27694.0	27487.2	27641.3	27763.8
5°	27443.6	27545.1	27201.2	27220.9	27189.4
7.5°	27311.8	27288.2	26709.8	26456.8	26346.2
10°	27113.0	26956.1	26028.6	25500.3	25115.5
12.5°	26856.1	26505.6	25178.8	23498.9	22455.4
15°	26555.6	25939.0	23850.6	20282.7	18747.7
17.5°	26197.2	25323.7	21679.3	16999.2	15629.1
20°	25774.2	24637.2	18915.0	14463.0	13128.3
22.5°	25302.5	23801.9	16229.9	12020.2	10116.3
25°	24795.3	22712.3	14105.9	8873.8	6237.3
27.5°	24209.0	21311.7	12113.7	5226.8	3183.3
30°	23588.5	19625.1	9796.1	2811.6	1932.9
32.5°	22962.6	17713.4	6931.7	1756.3	1096.2
35°	22259.1	15692.2	4110.8	967.1	470.4
37.5°	21525.1	13839.8	2429.6	440.1	301.7
40°	20706.9	12146.7	1561.3	292.4	296.4
42.5°	19916.4	10568.3	878.9	288.5	293.8
45°	19028.3	8840.8	404.5	292.4	291.2
47.5°	18109.9	7050.3	262.1	295.1	295.1
50°	17162.7	5041.1	260.9	301.7	293.8
52.5°	16162.6	3145.1	271.4	300.5	241.1
55°	15094.1	1820.9	276.7	250.3	112.0
57.5°	13987.3	1073.8	279.3	143.6	63.3
60°	12833.1	594.2	268.8	106.7	59.3
62.5°	11643.3	283.3	212.1	100.2	57.9
65°	10400.8	192.4	144.9	92.2	59.3
67.5°	9111.0	148.8	114.6	87.0	60.6
70°	7819.8	110.6	104.1	87.0	59.3
72.5°	6507.5	75.1	87.0	88.2	59.3
75°	5176.7	44.8	59.3	77.8	61.9
77.5°	3857.8	27.6	46.1	80.3	75.1
80°	2596.9	23.7	48.8	75.1	59.3
82.5°	1524.5	21.1	47.5	57.9	47.5
85°	645.6	17.2	31.6	47.5	39.5
87.5°	121.2	14.5	25.1	38.2	34.2
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)