

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: P730860

Luminaire Tested: **HBLED-LD5-30HE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-FLI-UNV-L840
Description: 30000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27928.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

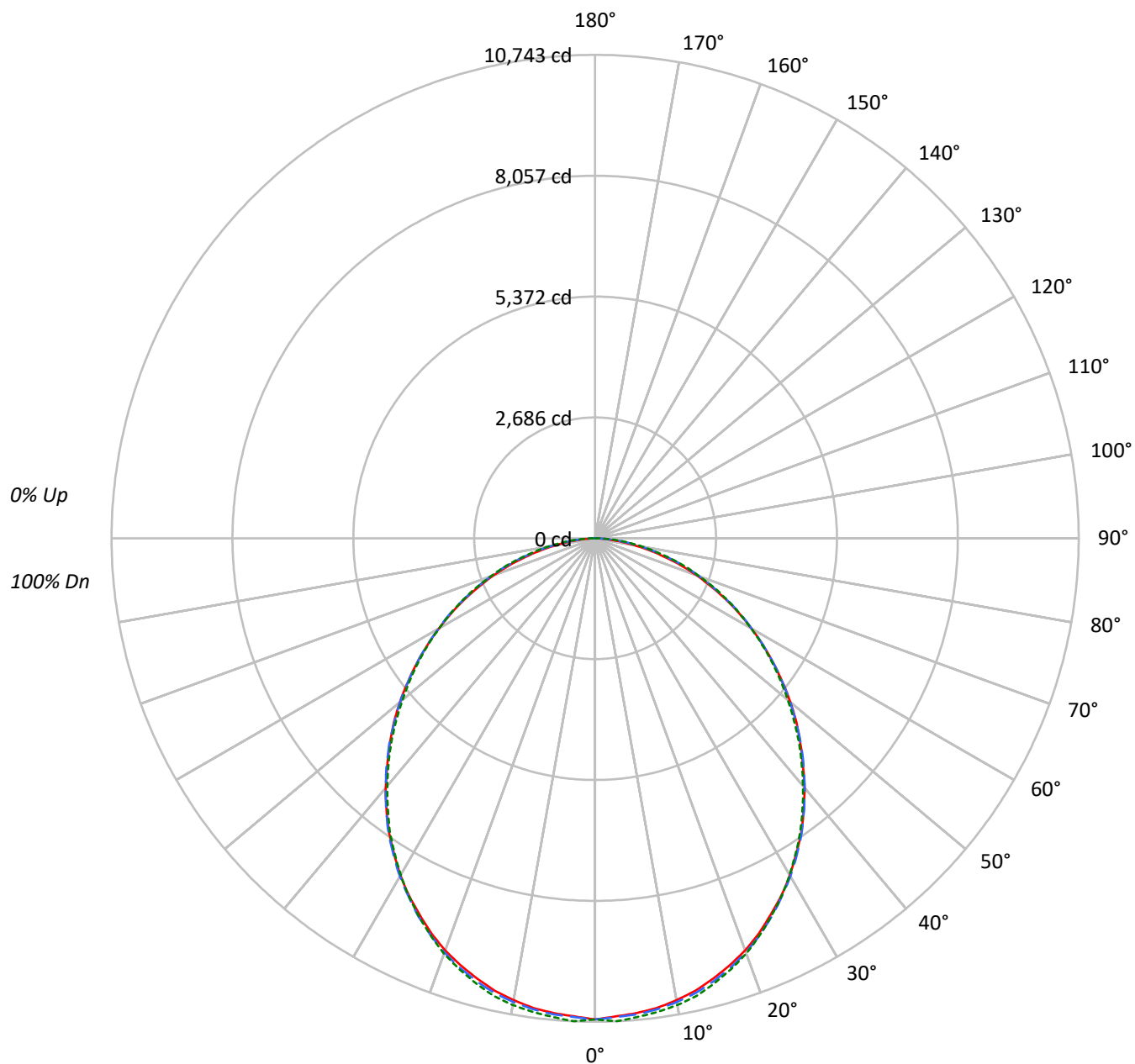
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17263	17263	17263
5°	17164	17213	17311
10°	17086	17156	17267
15°	16936	17028	17111
20°	16744	16825	16874
25°	16434	16528	16503
30°	16131	16175	16109
35°	15732	15772	15672
40°	15259	15259	15142
45°	14725	14766	14615
50°	14220	14195	14018
55°	13604	13606	13483
60°	12945	12961	12910
65°	12201	12323	12354
70°	11269	11578	11590
75°	9959	10604	10769
80°	8168	9287	9811
85°	5669	7797	8816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1011.2	3.6
10°-20°	2876.5	10.3
20°-30°	4274.7	15.3
30°-40°	4998.3	17.9
40°-50°	4983.4	17.8
50°-60°	4323.8	15.5
60°-70°	3193.6	11.4
70°-80°	1788.0	6.4
80°-90°	477.1	1.7
90°-100°	1.4	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°	8162.4	29.2
0°-40°	13160.7	47.1
0°-60°	22467.8	80.4
0°-90°	27926.6	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	27928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10692	10692	10692	10692	10692	
5°	10590	10657	10620	10667	10681	###
15°	10132	10203	10187	10236	10237	2858
25°	9225	9299	9278	9298	9264	4253
35°	7982	8052	8002	8000	7951	4986
45°	6449	6518	6467	6440	6401	4978
55°	4833	4866	4834	4825	4790	4322
65°	3194	3225	3226	3242	3234	3158
75°	1596	1644	1700	1712	1726	1700
85°	306	370	421	458	476	372
90°	0	7	8	18	17	12
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10691.6	10691.6	10691.6	10691.6	10691.6
2.5°	10633.2	10696.5	10652.2	10694.4	10743.4
5°	10590.3	10657.0	10620.2	10667.1	10680.7
7.5°	10527.8	10592.4	10557.0	10604.0	10618.2
10°	10421.7	10491.8	10463.9	10516.9	10531.9
12.5°	10298.0	10363.9	10345.6	10407.4	10417.6
15°	10132.1	10202.9	10187.1	10236.1	10236.8
17.5°	9948.5	10015.1	10003.5	10041.7	10040.2
20°	9745.3	9816.6	9792.2	9833.6	9820.6
22.5°	9504.6	9580.7	9550.0	9584.7	9552.1
25°	9225.0	9299.2	9277.5	9297.8	9263.8
27.5°	8954.5	9022.5	8977.5	9002.0	8966.0
30°	8652.5	8710.3	8675.7	8683.9	8640.4
32.5°	8313.3	8382.0	8339.8	8338.4	8292.2
35°	7981.5	8051.5	8001.9	8000.5	7951.0
37.5°	7614.3	7679.6	7621.1	7624.6	7566.8
40°	7239.7	7296.2	7239.7	7236.9	7184.0
42.5°	6833.1	6907.9	6856.3	6862.3	6791.7
45°	6449.0	6517.7	6466.7	6440.1	6400.7
47.5°	6066.3	6096.1	6053.9	6047.1	5991.4
50°	5661.0	5683.4	5651.4	5643.3	5580.8
52.5°	5242.2	5280.9	5240.1	5229.2	5187.8
55°	4832.8	4866.1	4833.5	4825.3	4789.9
57.5°	4420.8	4464.3	4431.0	4422.8	4394.3
60°	4008.8	4021.7	4013.6	4025.7	3998.0
62.5°	3599.5	3629.3	3638.9	3635.5	3613.8
65°	3193.5	3224.8	3225.5	3241.9	3233.6
67.5°	2778.1	2818.9	2830.5	2847.4	2854.9
70°	2387.1	2418.4	2452.5	2462.6	2455.1
72.5°	1993.5	2043.8	2081.9	2090.7	2122.7
75°	1596.4	1644.0	1699.8	1712.0	1726.3
77.5°	1228.0	1291.1	1341.4	1357.8	1375.5
80°	878.5	948.5	998.8	1021.2	1055.2
82.5°	576.6	648.0	699.0	721.4	762.9
85°	306.0	369.9	420.9	458.2	475.9
87.5°	90.4	144.8	174.0	184.9	200.6
90°	0.0	6.8	8.1	18.3	17.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)