

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: P730858

Luminaire Tested: **HBLED-LD5-30HE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730858
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-L750
Description: 30000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29962.0 lumens
Efficiency: N/A
Efficacy: 167.4 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

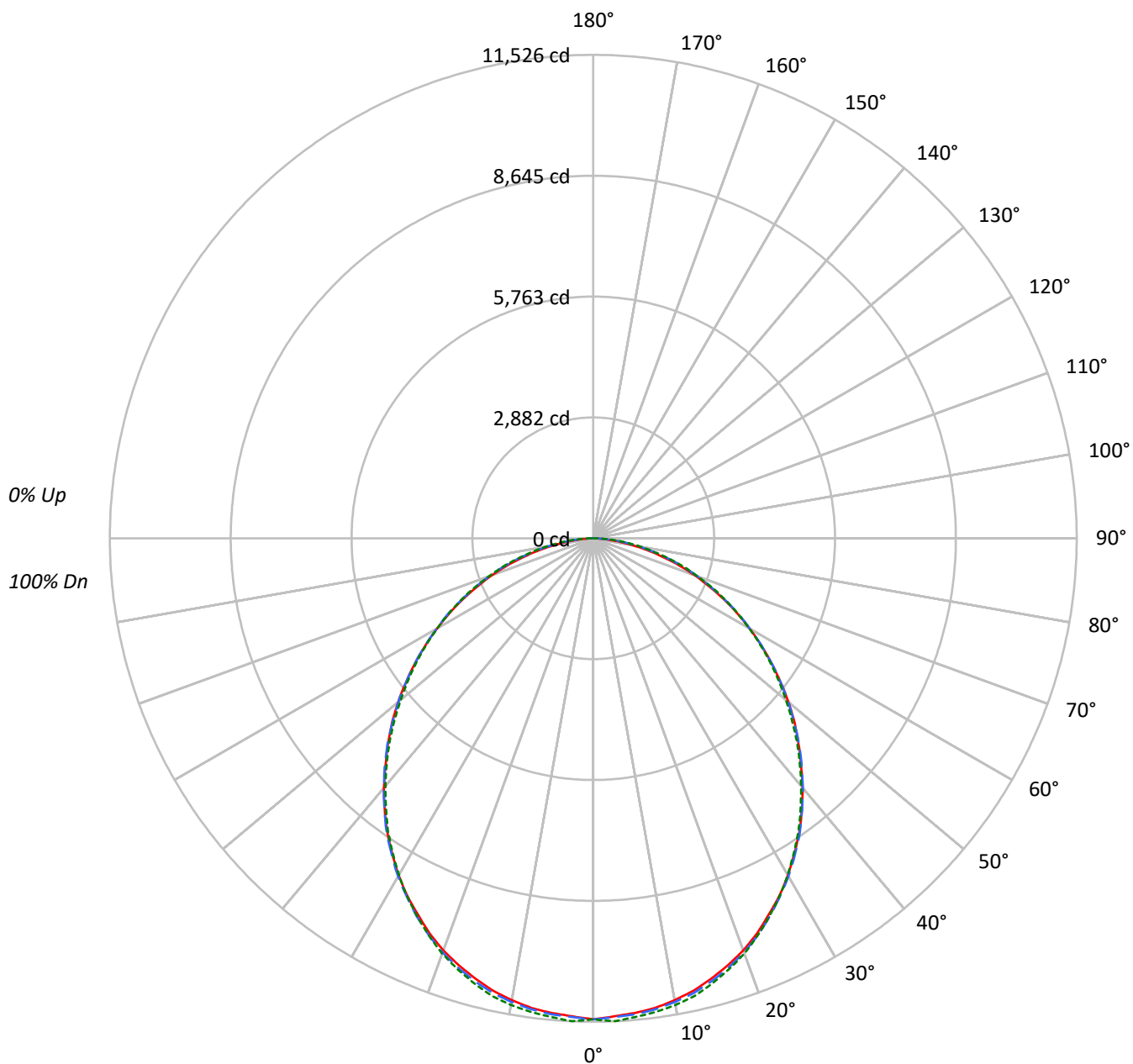
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730858

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P730858

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L750

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°	18520	18520	18520
5°	18414	18466	18572
10°	18331	18405	18524
15°	18170	18268	18357
20°	17964	18050	18103
25°	17631	17731	17705
30°	17306	17353	17282
35°	16878	16921	16813
40°	16370	16370	16244
45°	15798	15841	15679
50°	15255	15229	15039
55°	14595	14597	14465
60°	13888	13905	13850
65°	13089	13220	13253
70°	12090	12421	12434
75°	10684	11376	11553
80°	8763	9963	10526
85°	6082	8364	9459



TEST NUMBER: P730858

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1084.8	3.6
10°-20°	3086.0	10.3
20°-30°	4586.0	15.3
30°-40°	5362.3	17.9
40°-50°	5346.3	17.8
50°-60°	4638.7	15.5
60°-70°	3426.2	11.4
70°-80°	1918.3	6.4
80°-90°	511.8	1.7
90°-100°	1.5	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°	8756.9	29.2
0°-40°	14119.2	47.1
0°-60°	24104.2	80.4
0°-90°	29960.5	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	2.0	0.0
0°-180°	29962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11470	11470	11470	11470	11470	
5°	11362	11433	11394	11444	11459	###
15°	10870	10946	10929	10982	10982	3066
25°	9897	9976	9953	9975	9938	4563
35°	8563	8638	8585	8583	8530	5349
45°	6919	6992	6938	6909	6867	5341
55°	5185	5220	5186	5177	5139	4636
65°	3426	3460	3460	3478	3469	3388
75°	1713	1764	1824	1837	1852	1824
85°	328	397	452	492	511	399
90°	0	7	9	20	18	13
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	



TEST NUMBER: P730858

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11470.3	11470.3	11470.3	11470.3	11470.3
2.5°	11407.6	11475.5	11428.0	11473.2	11525.8
5°	11361.6	11433.2	11393.7	11444.0	11458.6
7.5°	11294.6	11363.9	11325.9	11376.2	11391.6
10°	11180.7	11255.9	11226.0	11282.9	11298.9
12.5°	11048.0	11118.7	11099.0	11165.4	11176.3
15°	10870.0	10945.9	10929.1	10981.6	10982.3
17.5°	10673.1	10744.5	10732.1	10773.0	10771.5
20°	10455.0	10531.5	10505.3	10549.8	10535.9
22.5°	10196.8	10278.4	10245.6	10282.8	10247.8
25°	9896.9	9976.5	9953.1	9974.9	9938.5
27.5°	9606.6	9679.6	9631.4	9657.6	9619.0
30°	9282.7	9344.7	9307.6	9316.3	9269.6
32.5°	8918.7	8992.4	8947.1	8945.7	8896.1
35°	8562.8	8637.9	8584.7	8583.2	8530.0
37.5°	8168.9	8238.9	8176.2	8179.9	8117.9
40°	7767.0	7827.6	7767.0	7764.0	7707.2
42.5°	7330.7	7411.0	7355.6	7362.1	7286.3
45°	6918.7	6992.4	6937.7	6909.1	6866.8
47.5°	6508.1	6540.1	6494.8	6487.5	6427.8
50°	6073.2	6097.3	6063.0	6054.3	5987.2
52.5°	5623.9	5665.6	5621.7	5610.0	5565.6
55°	5184.8	5220.5	5185.5	5176.8	5138.8
57.5°	4742.8	4789.5	4753.8	4744.9	4714.4
60°	4300.8	4314.6	4305.9	4318.9	4289.1
62.5°	3861.6	3893.7	3903.9	3900.3	3876.9
65°	3426.1	3459.7	3460.4	3478.0	3469.1
67.5°	2980.5	3024.2	3036.7	3054.8	3062.8
70°	2561.0	2594.6	2631.1	2641.9	2633.9
72.5°	2138.7	2192.6	2233.6	2243.0	2277.3
75°	1712.7	1763.7	1823.6	1836.7	1852.0
77.5°	1317.4	1385.1	1439.1	1456.7	1475.7
80°	942.5	1017.5	1071.5	1095.5	1132.1
82.5°	618.6	695.2	749.9	773.9	818.5
85°	328.3	396.9	451.5	491.6	510.6
87.5°	97.0	155.3	186.7	198.4	215.2
90°	0.0	7.3	8.7	19.7	18.3
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



TEST NUMBER: P730858

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L750

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)