

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: P730553

Luminaire Tested: **HBLED-LD5-18HE-W-CL-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16710.0 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

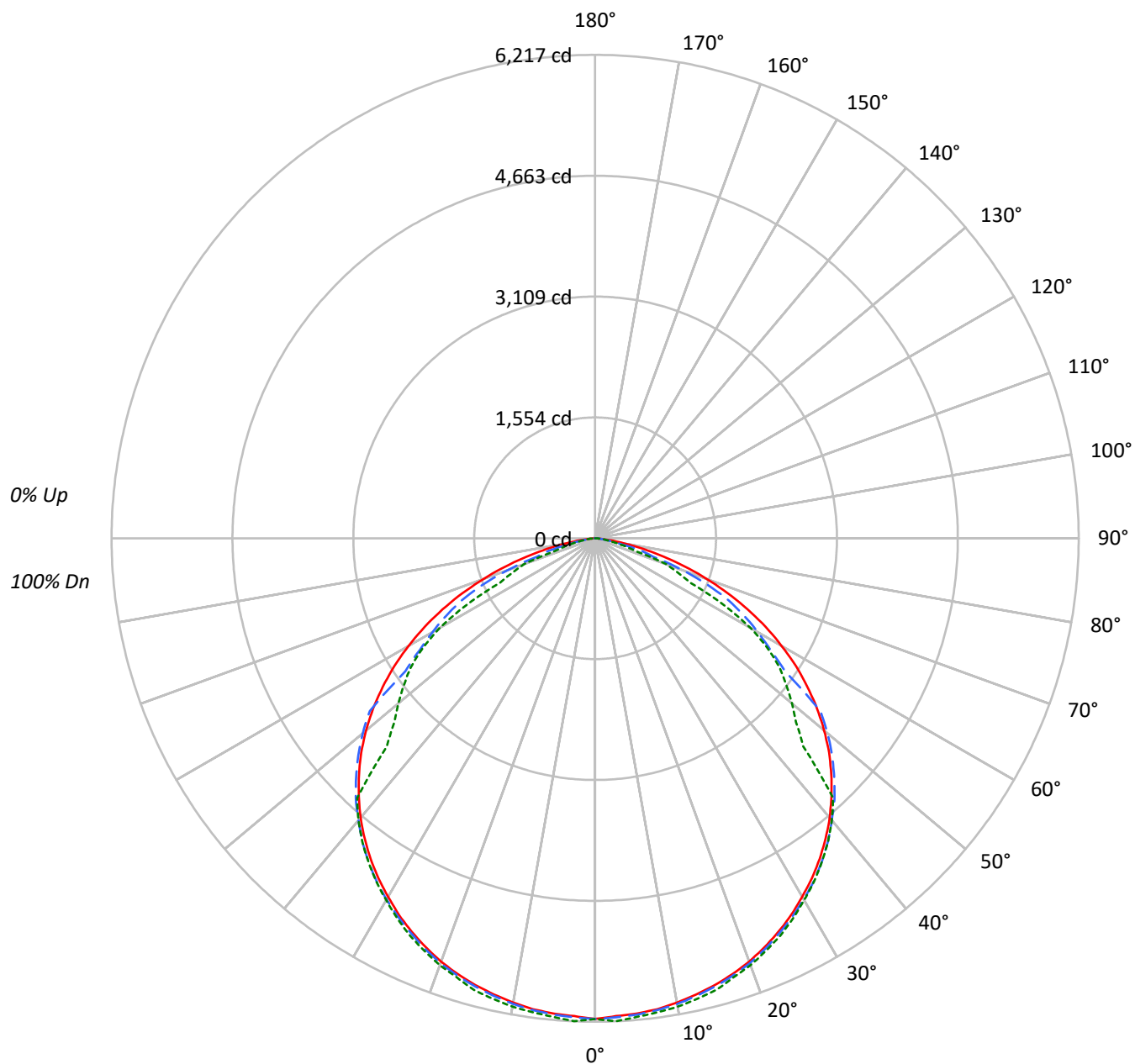
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9980	9980	9980
5°	9943	9965	10014
10°	9942	9971	10029
15°	9942	9972	10052
20°	9954	9992	10038
25°	9943	9980	10041
30°	9924	9997	10019
35°	9919	10010	10017
40°	9888	9976	9976
45°	9804	9922	8645
50°	9652	9798	8295
55°	9379	8387	8148
60°	8938	7796	7444
65°	8266	7237	5155
70°	7198	5631	4594
75°	5686	3779	2469
80°	3660	1805	1539
85°	1506	1102	1212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.3	3.5
10°-20°	1690.0	10.1
20°-30°	2591.0	15.5
30°-40°	3175.7	19.0
40°-50°	3264.8	19.5
50°-60°	2786.4	16.7
60°-70°	1842.1	11.0
70°-80°	682.5	4.1
80°-90°	91.3	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°	4867.3	29.1
0°-40°	8042.9	48.1
0°-60°	14094.1	84.3
0°-90°	16710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6181	6181	6181	6181	6181	
5°	6135	6178	6149	6173	6179	584
15°	5948	5984	5966	6011	6014	1680
25°	5581	5610	5602	5653	5636	2573
35°	5032	5067	5078	5110	5082	3148
45°	4294	4336	4345	4339	3786	3309
55°	3332	3393	2979	2893	2894	2973
65°	2164	2182	1894	1558	1349	2134
75°	911	798	606	407	396	978
85°	81	58	60	65	65	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6181.0	6181.0	6181.0	6181.0	<i>6181.0</i>
2.5°	<i>6150.8</i>	<i>6189.3</i>	<i>6166.6</i>	<i>6195.2</i>	<i>6217.0</i>
5°	6135.1	6177.9	6148.6	6172.7	<i>6178.7</i>
7.5°	6108.0	6147.8	6120.7	6152.4	<i>6147.8</i>
10°	6064.3	6100.4	6081.6	6114.8	<i>6117.0</i>
12.5°	6008.6	6044.7	6027.4	6068.0	<i>6067.3</i>
15°	5947.6	5983.8	5965.7	6010.9	<i>6013.9</i>
17.5°	5876.2	5909.3	5895.7	5937.2	<i>5920.5</i>
20°	5793.4	5822.0	5815.2	5854.3	<i>5842.3</i>
22.5°	5691.8	5721.1	5714.4	5759.5	<i>5741.4</i>
25°	5581.2	5610.5	5602.2	5652.6	<i>5636.1</i>
27.5°	5461.5	5489.3	5488.5	5536.0	<i>5510.4</i>
30°	5323.0	5359.9	5362.2	5404.3	<i>5374.2</i>
32.5°	5186.1	5220.7	5230.5	5261.3	<i>5235.7</i>
35°	5032.5	5067.1	5078.4	5110.1	<i>5082.2</i>
37.5°	4866.9	4896.3	4916.6	4939.9	<i>4918.1</i>
40°	4691.6	4717.9	4733.0	4761.6	<i>4733.0</i>
42.5°	4495.9	4533.6	4554.7	4575.0	<i>4528.3</i>
45°	4293.5	4336.4	4345.4	4338.6	<i>3786.2</i>
47.5°	4079.0	4125.7	4131.0	3602.6	<i>3501.0</i>
50°	3842.7	3901.4	3900.7	3329.4	<i>3302.4</i>
52.5°	3596.6	3653.1	3650.8	3115.7	<i>3097.7</i>
55°	3331.7	3392.6	2979.4	2892.9	<i>2894.4</i>
57.5°	3061.5	3105.1	2673.2	2676.9	<i>2627.2</i>
60°	2768.0	2809.4	2414.3	2391.0	<i>2305.1</i>
62.5°	2473.8	2491.1	2163.7	2050.0	<i>1886.7</i>
65°	2163.7	2181.7	1894.3	1557.8	<i>1349.4</i>
67.5°	1845.4	1863.4	1572.1	1159.0	<i>1143.1</i>
70°	1524.7	1377.2	1192.9	965.6	<i>973.1</i>
72.5°	1208.7	1058.1	779.7	748.1	<i>540.3</i>
75°	911.4	798.5	605.8	407.2	<i>395.8</i>
77.5°	634.4	550.1	324.4	277.7	<i>259.7</i>
80°	393.6	276.2	194.1	172.3	<i>165.5</i>
82.5°	199.4	158.8	105.4	105.4	<i>105.4</i>
85°	81.3	58.0	59.5	64.7	<i>65.4</i>
87.5°	17.3	23.3	28.6	29.4	<i>28.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)