

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: P730499

Luminaire Tested: **HBLED-LD5-15SE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730499
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-LD5-15SE-W-FLI-UNV-L835
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13601.0 lumens
Efficiency: N/A
Efficacy: 144.7 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

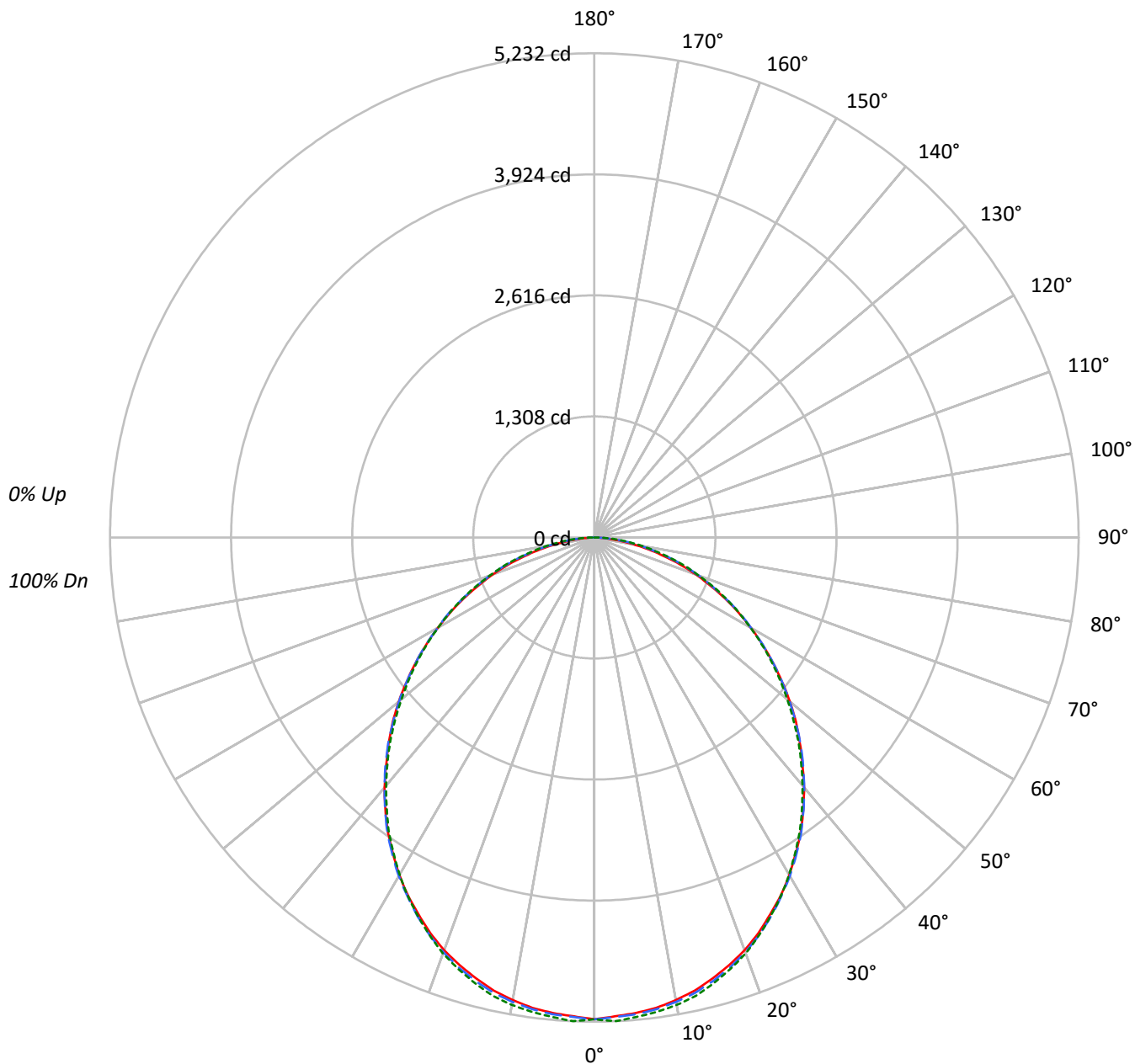
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730499

CATALOG NUMBER: HBLED-LD5-15SE-W-FLI-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P730499

CATALOG NUMBER: HBLED-LD5-15SE-W-FLI-UNV-L835

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°	8407	8407	8407
5°	8359	8383	8430
10°	8321	8355	8409
15°	8248	8293	8333
20°	8155	8194	8218
25°	8004	8049	8037
30°	7856	7877	7845
35°	7661	7681	7632
40°	7431	7431	7374
45°	7171	7191	7117
50°	6925	6913	6827
55°	6625	6626	6566
60°	6304	6312	6287
65°	5942	6001	6016
70°	5488	5638	5644
75°	4850	5164	5245
80°	3978	4523	4778
85°	2760	3798	4294



TEST NUMBER: P730499

CATALOG NUMBER: HBLED-LD5-15SE-W-FLI-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.4	3.6
10°-20°	1400.9	10.3
20°-30°	2081.8	15.3
30°-40°	2434.2	17.9
40°-50°	2426.9	17.8
50°-60°	2105.7	15.5
60°-70°	1555.3	11.4
70°-80°	870.8	6.4
80°-90°	232.3	1.7
90°-100°	0.7	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°	3975.1	29.2
0°-40°	6409.3	47.1
0°-60°	10941.9	80.4
0°-90°	13600.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5207	5207	5207	5207	5207	
5°	5158	5190	5172	5195	5202	490
15°	4934	4969	4961	4985	4985	1392
25°	4493	4529	4518	4528	4512	2071
35°	3887	3921	3897	3896	3872	2428
45°	3141	3174	3149	3136	3117	2425
55°	2354	2370	2354	2350	2333	2105
65°	1555	1570	1571	1579	1575	1538
75°	778	801	828	834	841	828
85°	149	180	205	223	232	181
90°	0	3	4	9	8	6
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: P730499

CATALOG NUMBER: HBLED-LD5-15SE-W-FLI-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5206.8	5206.8	5206.8	5206.8	5206.8
2.5°	5178.4	5209.2	5187.6	5208.2	5232.1
5°	5157.5	5190.0	5172.1	5194.9	5201.5
7.5°	5127.1	5158.5	5141.3	5164.2	5171.1
10°	5075.4	5109.5	5095.9	5121.8	5129.1
12.5°	5015.1	5047.2	5038.3	5068.4	5073.4
15°	4934.4	4968.8	4961.2	4985.0	4985.3
17.5°	4844.9	4877.4	4871.7	4890.3	4889.6
20°	4746.0	4780.7	4768.8	4789.0	4782.7
22.5°	4628.7	4665.8	4650.9	4667.8	4651.9
25°	4492.6	4528.7	4518.1	4528.0	4511.5
27.5°	4360.8	4394.0	4372.1	4384.0	4366.5
30°	4213.8	4242.0	4225.1	4229.1	4207.9
32.5°	4048.6	4082.0	4061.5	4060.8	4038.3
35°	3887.0	3921.1	3897.0	3896.3	3872.1
37.5°	3708.2	3740.0	3711.5	3713.2	3685.0
40°	3525.7	3553.3	3525.7	3524.4	3498.6
42.5°	3327.7	3364.2	3339.0	3342.0	3307.6
45°	3140.7	3174.1	3149.3	3136.3	3117.1
47.5°	2954.3	2968.8	2948.3	2945.0	2917.8
50°	2756.9	2767.8	2752.2	2748.3	2717.8
52.5°	2552.9	2571.8	2551.9	2546.6	2526.5
55°	2353.6	2369.8	2353.9	2349.9	2332.7
57.5°	2152.9	2174.1	2157.9	2153.9	2140.1
60°	1952.3	1958.6	1954.6	1960.5	1947.0
62.5°	1753.0	1767.5	1772.2	1770.5	1759.9
65°	1555.3	1570.5	1570.8	1578.8	1574.8
67.5°	1353.0	1372.8	1378.5	1386.7	1390.4
70°	1162.5	1177.8	1194.4	1199.3	1195.6
72.5°	970.8	995.3	1013.9	1018.2	1033.7
75°	777.5	800.6	827.8	833.8	840.7
77.5°	598.0	628.8	653.3	661.3	669.9
80°	427.8	461.9	486.4	497.3	513.9
82.5°	280.8	315.6	340.4	351.3	371.5
85°	149.0	180.2	205.0	223.2	231.8
87.5°	44.0	70.5	84.7	90.0	97.7
90°	0.0	3.3	4.0	8.9	8.3
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: P730499

CATALOG NUMBER: HBLED-LD5-15SE-W-FLI-UNV-L835

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)