

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: P827126

Luminaire Tested: **OHBL-18SE-W-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827126  
REPORT IS A COMBINATION OF REPORTS P826238 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-W-UNV-L840-CD-UPL24  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENSAND 2400 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

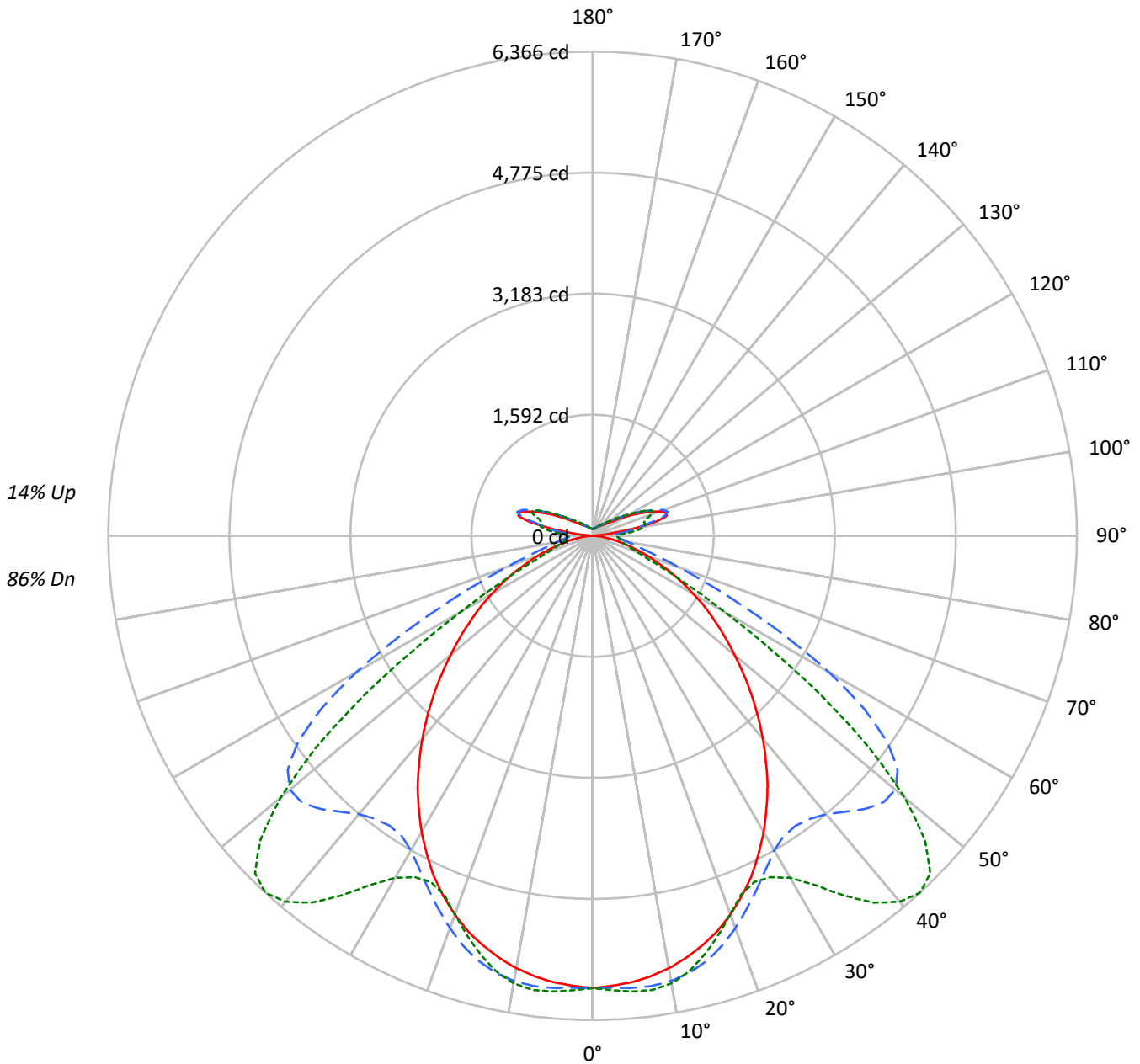
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20225.3 lumens  
Efficiency: N/A  
Efficacy: 165.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P827126

CATALOG NUMBER: OHBL-18SE-W-UNV-L840-CD-UPL24

### Luminous Intensity Polar Plot





TEST NUMBER: P827126

CATALOG NUMBER: OHBL-18SE-W-UNV-L840-CD-UPL24

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	102	97	94	102	98	94	91	91	88	86	85	83	81	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	46	71	60	52	46	56	49	44	53	47	42	49	44	40	38																			
6	68	55	46	40	65	54	45	40	50	43	38	47	41	37	45	39	35	33																			
7	63	50	41	35	61	48	40	35	46	39	33	43	37	32	41	35	31	29																			
8	59	45	37	31	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	41	33	28	52	40	33	27	38	31	27	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	29	24	33	27	23	32	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10157	10157	10157
5°	10013	10142	10272
10°	9839	10127	10285
15°	9600	9959	9955
20°	9290	9617	9467
25°	8894	9203	9277
30°	8384	8894	9983
35°	7813	9059	11683
40°	7160	9811	13506
45°	6482	11129	14517
50°	5781	12305	13509
55°	5121	12290	10322
60°	4453	10397	6311
65°	3753	7179	3823
70°	2975	4640	2760
75°	2183	3325	2559
80°	1474	2919	2887
85°	880	3206	4563



TEST NUMBER: P827126

CATALOG NUMBER: OHBL-18SE-W-UNV-L840-CD-UPL24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.3	2.8
10°-20°	1609.1	8.0
20°-30°	2354.7	11.6
30°-40°	3058.1	15.1
40°-50°	3734.3	18.5
50°-60°	3288.6	16.3
60°-70°	1713.7	8.5
70°-80°	734.9	3.6
80°-90°	359.1	1.8
90°-100°	397.6	2.0
100°-110°	908.0	4.5
110°-120°	751.4	3.7
120°-130°	364.4	1.8
130°-140°	182.4	0.9
140°-150°	104.1	0.5
150°-160°	58.8	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	4532.1	22.4
0°-40°	7590.2	37.5
0°-60°	14613.1	72.3
0°-90°	17420.8	86.1
90°-120°	2057.0	10.2
90°-150°	2707.8	13.4
90°-180°	2804.0	13.9
0°-180°	20225.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5946	5946	5946	5946	5946	
5°	5891	5936	5968	6021	6014	559
15°	5574	5731	5786	5743	5696	1570
25°	4939	5204	5115	5019	5024	2267
35°	4009	4433	4655	5428	5776	2499
45°	2952	3714	5077	6147	6275	2276
55°	1966	3254	4728	4145	3685	1764
65°	1128	2254	2164	1203	1035	1116
75°	454	1055	695	476	452	495
85°	96	376	354	346	350	107
90°	6	170	280	329	342	10
95°	56	190	358	446	482	167
105°	1008	1037	965	746	700	957
115°	700	725	773	788	785	706
125°	347	369	407	418	417	325
135°	208	212	232	248	251	164
145°	155	157	161	170	173	98
155°	126	128	128	129	129	58
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



TEST NUMBER: P827126

CATALOG NUMBER: OHBL-18SE-W-UNV-L840-CD-UPL24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5946.5	5946.5	5946.5	5946.5	5946.5
2.5°	5920.9	5946.5	5947.8	5983.8	5979.9
5°	5891.4	5936.3	5968.4	6021.0	6014.5
7.5°	5842.6	5913.2	5969.6	6027.4	6022.2
10°	5773.3	5869.6	5944.0	5991.4	5976.1
12.5°	5683.5	5810.6	5883.7	5893.9	5864.4
15°	5574.5	5731.0	5786.2	5742.6	5696.4
17.5°	5451.3	5634.8	5654.0	5559.1	5501.4
20°	5297.4	5506.5	5487.2	5356.4	5292.2
22.5°	5126.7	5365.4	5303.8	5166.5	5104.9
25°	4939.4	5203.7	5115.2	5019.0	5024.1
27.5°	4720.0	5020.2	4934.3	4977.9	5060.0
30°	4496.8	4827.8	4775.2	5029.2	5190.9
32.5°	4251.7	4630.2	4677.7	5179.3	5443.6
35°	4009.3	4432.6	4654.6	5428.2	5775.9
37.5°	3741.1	4232.5	4691.8	5715.6	6080.0
40°	3480.7	4037.5	4776.5	5973.5	6281.4
42.5°	3215.1	3863.0	4918.9	6126.2	6366.1
45°	2952.1	3714.2	5076.7	6146.7	6275.0
47.5°	2689.1	3588.5	5185.7	5983.8	5924.7
50°	2435.1	3476.8	5193.4	5592.4	5351.2
52.5°	2197.7	3374.2	5052.3	4968.9	4594.3
55°	1965.5	3253.6	4727.7	4145.3	3684.7
57.5°	1753.8	3086.8	4227.4	3260.0	2757.1
60°	1529.3	2861.0	3580.8	2385.0	1988.6
62.5°	1322.7	2580.0	2855.9	1660.2	1429.2
65°	1127.7	2254.2	2164.4	1203.4	1035.4
67.5°	921.2	1916.8	1597.3	877.5	769.8
70°	759.5	1603.7	1189.3	682.5	619.7
72.5°	594.0	1306.1	889.1	554.2	519.6
75°	454.2	1054.6	695.4	476.0	451.6
77.5°	334.9	833.9	559.4	420.8	397.7
80°	234.8	656.9	468.3	375.9	366.9
82.5°	157.8	508.1	399.0	357.9	359.2
85°	96.2	375.9	354.1	346.4	350.2
87.5°	46.2	266.9	304.1	315.6	319.5
90°	6.3	170.0	280.5	328.9	342.3
92.5°	17.0	148.9	277.3	340.6	360.0
95°	55.6	190.5	358.0	446.1	482.5
97.5°	271.6	356.4	479.8	579.1	616.0
100°	555.8	642.5	621.8	680.9	693.7
102.5°	856.8	898.0	751.4	715.7	710.2
105°	1008.1	1036.9	964.6	746.0	699.5



TEST NUMBER: P827126

CATALOG NUMBER: OHBL-18SE-W-UNV-L840-CD-UPL24

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	815.7	850.8	888.7	883.6	854.2
115°	699.7	724.7	773.4	788.1	784.7
117.5°	601.0	616.1	662.4	676.8	679.1
120°	499.0	520.2	566.5	576.8	572.1
122.5°	420.0	438.4	479.0	491.1	486.4
125°	347.0	368.8	406.6	418.5	416.7
127.5°	293.7	308.0	346.2	360.0	360.3
130°	256.7	264.7	297.8	311.6	315.2
132.5°	228.7	235.7	260.7	277.5	279.1
135°	207.7	211.7	231.5	247.6	250.9
137.5°	190.7	193.7	208.7	224.5	227.1
140°	175.7	179.7	189.8	204.7	206.9
142.5°	164.0	166.7	174.5	186.8	188.1
145°	155.3	156.7	161.0	169.7	173.2
147.5°	146.3	149.0	151.0	158.1	159.4
150°	139.3	141.3	141.7	145.3	148.8
152.5°	132.3	134.3	134.7	135.7	138.3
155°	126.3	128.3	127.7	128.7	128.7
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1013.4	1050.8	1040.8	858.6	739.1
110°	935.4	972.6	987.9	931.5	836.0



(END OF REPORT)