

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: P828319

Luminaire Tested: **OHBL-18SE-N-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828319
REPORT IS A COMBINATION OF REPORTS P826164 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-N-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

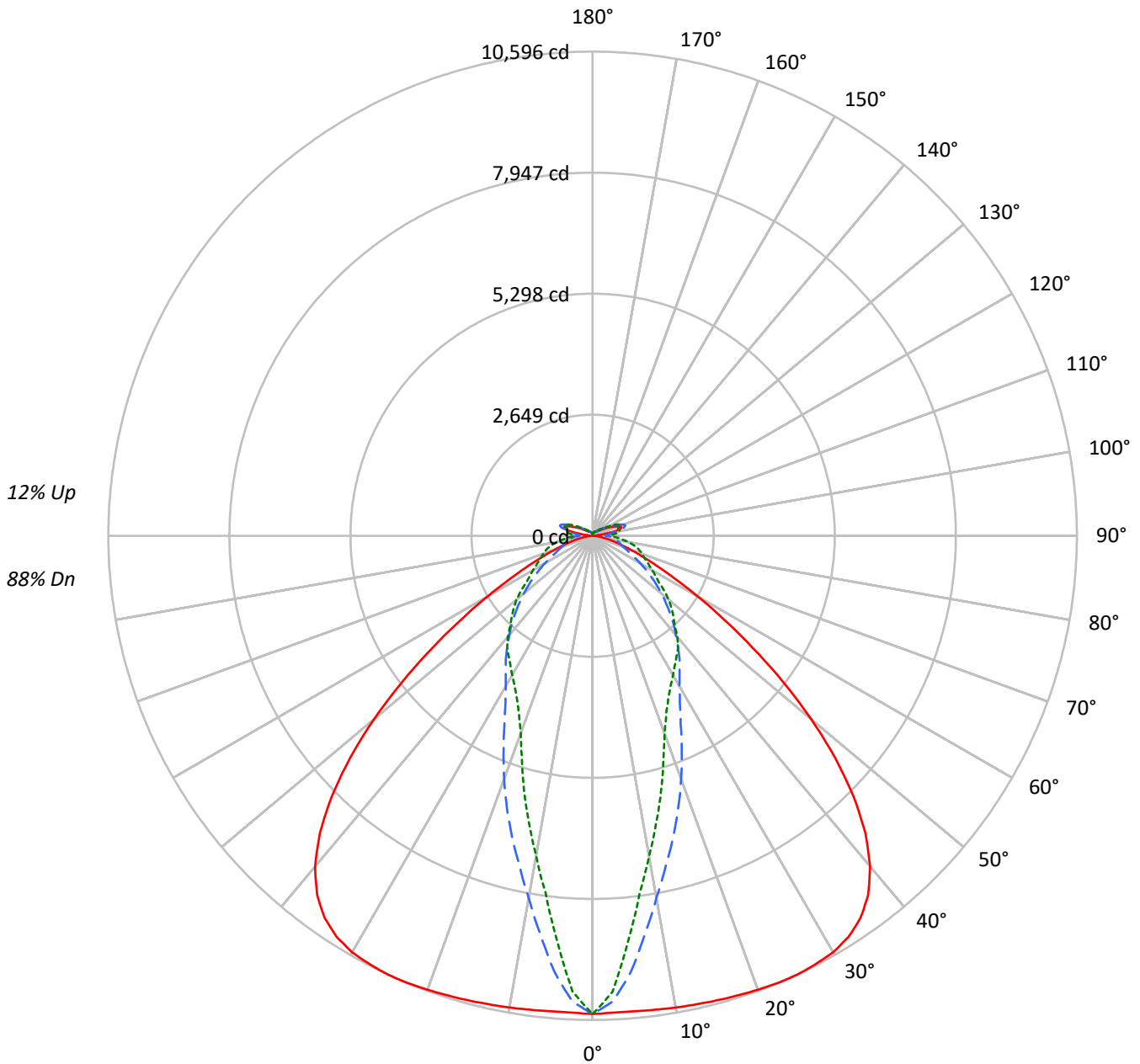
Lumens per Lamp: N/A
Luminaire Lumens: 17004.5 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 117.3
Input Voltage (V): NR
Input Current (A_{in}): 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: P828319

CATALOG NUMBER: OHBL-18SE-N-UNV-L940-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P828319

CATALOG NUMBER: OHBL-18SE-N-UNV-L940-CD-UPL18

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	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17878	17878	17878
5°	17755	16281	15211
10°	17868	13714	12256
15°	18126	11729	10110
20°	18540	9917	8219
25°	19078	8208	7241
30°	19624	7071	6765
35°	19907	6445	6486
40°	19430	5821	6197
45°	17734	5261	5783
50°	14825	4648	5477
55°	11141	4071	4929
60°	7701	3491	4784
65°	5089	3007	4767
70°	3391	2822	5125
75°	2269	2910	5679
80°	1469	3223	6216
85°	756	4031	7412



TEST NUMBER: P828319

CATALOG NUMBER: OHBL-18SE-N-UNV-L940-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.1	5.2
10°-20°	2072.7	12.2
20°-30°	2598.2	15.3
30°-40°	2757.0	16.2
40°-50°	2492.7	14.7
50°-60°	1807.4	10.6
60°-70°	1134.2	6.7
70°-80°	750.6	4.4
80°-90°	436.3	2.6
90°-100°	358.4	2.1
100°-110°	661.6	3.9
110°-120°	533.4	3.1
120°-130°	256.5	1.5
130°-140°	126.4	0.7
140°-150°	72.7	0.4
150°-160°	40.8	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	5552.0	32.7
0°-40°	8309.0	48.9
0°-60°	12609.1	74.2
0°-90°	14930.2	87.8
90°-120°	1553.3	9.1
90°-150°	2009.0	11.8
90°-180°	2074.0	12.2
0°-180°	17004.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10467	10467	10467	10467	10467	
5°	10446	10178	9580	9136	8906	999
15°	10526	8579	6814	6060	5785	2985
25°	10596	6634	4563	4050	3921	4895
35°	10216	4410	3311	3208	3207	6351
45°	8076	2793	2400	2458	2500	6152
55°	4276	1731	1566	1698	1759	3863
65°	1529	1004	907	1162	1291	1591
75°	472	541	609	945	1002	526
85°	83	224	445	620	569	99
90°	4	115	288	403	410	8
95°	37	137	339	454	489	107
105°	652	682	710	603	579	619
115°	457	482	562	585	587	461
125°	229	244	291	305	302	215
135°	139	143	160	176	177	110
145°	106	109	113	122	121	67
155°	87	92	93	95	93	39
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



TEST NUMBER: P828319

CATALOG NUMBER: OHBL-18SE-N-UNV-L940-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10467.1	10467.1	10467.1	10467.1	10467.1
2.5°	10445.2	10385.3	10199.1	10085.5	9989.8
5°	10446.1	10178.2	9580.4	9136.1	8906.0
7.5°	10461.1	9865.3	8788.4	8139.9	7886.9
10°	10483.9	9477.8	8049.2	7357.9	7121.8
12.5°	10500.9	9041.4	7398.7	6688.5	6429.5
15°	10525.8	8579.2	6814.0	6059.9	5784.9
17.5°	10548.7	8143.9	6236.2	5448.2	5142.3
20°	10571.7	7674.7	5658.4	4846.5	4594.5
22.5°	10593.6	7179.6	5094.5	4379.3	4207.0
25°	10595.6	6633.7	4562.6	4049.5	3921.0
27.5°	10569.7	6067.9	4131.3	3773.6	3693.9
30°	10524.8	5519.0	3796.5	3574.4	3517.6
32.5°	10413.2	4959.1	3537.5	3382.1	3349.2
35°	10216.0	4410.2	3311.4	3207.7	3206.8
37.5°	9905.1	3923.0	3066.3	3048.4	3070.3
40°	9445.9	3496.6	2834.2	2882.0	2882.0
42.5°	8833.3	3126.1	2624.0	2672.8	2659.8
45°	8076.2	2793.4	2399.8	2457.7	2499.5
47.5°	7198.5	2500.4	2170.7	2282.3	2340.0
50°	6244.2	2221.5	1961.6	2104.0	2169.7
52.5°	5244.0	1963.5	1757.3	1920.7	1973.5
55°	4275.7	1731.4	1566.0	1698.5	1759.3
57.5°	3399.0	1510.2	1378.8	1504.2	1629.8
60°	2644.9	1320.0	1202.4	1381.7	1507.3
62.5°	2020.3	1150.6	1037.1	1267.1	1392.7
65°	1529.2	1004.2	906.6	1161.6	1291.0
67.5°	1152.6	877.6	804.9	1084.9	1211.4
70°	865.7	755.1	723.2	1037.1	1150.6
72.5°	639.6	642.5	658.5	995.2	1081.8
75°	472.2	541.0	608.7	945.4	1002.2
77.5°	337.7	448.3	563.8	885.6	905.5
80°	234.1	365.6	517.1	806.9	790.0
82.5°	146.4	292.9	475.2	720.2	673.5
85°	82.7	224.1	445.3	619.7	568.8
87.5°	36.9	167.4	389.5	483.2	451.2
90°	3.5	115.4	287.6	402.7	410.0
92.5°	13.3	106.4	285.9	398.8	415.8
95°	37.0	137.0	339.3	454.0	488.8
97.5°	174.5	243.0	420.1	532.1	557.9
100°	355.5	418.7	504.0	586.5	601.7
102.5°	553.8	593.8	575.1	596.5	599.3
105°	652.3	682.0	709.6	602.6	579.0



TEST NUMBER: P828319

CATALOG NUMBER: OHBL-18SE-N-UNV-L940-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	533.4	560.8	641.0	659.9	643.2
115°	457.0	482.1	561.9	584.6	586.7
117.5°	391.9	409.4	481.9	505.1	507.0
120°	329.3	347.3	410.6	428.9	427.2
122.5°	277.1	292.9	347.1	361.4	358.6
125°	229.3	243.7	290.7	304.7	302.0
127.5°	195.3	205.1	245.8	258.8	256.1
130°	170.9	179.0	208.1	222.9	223.8
132.5°	153.5	158.0	181.2	196.0	197.7
135°	138.7	143.2	160.5	176.2	177.1
137.5°	127.4	132.9	144.4	159.1	160.0
140°	117.8	122.3	130.9	144.7	145.5
142.5°	110.9	114.5	121.1	132.0	132.9
145°	105.8	108.6	113.2	122.1	121.0
147.5°	99.7	103.5	106.2	112.9	112.0
150°	94.5	99.3	101.0	104.9	104.8
152.5°	91.0	94.9	96.7	99.6	98.5
155°	86.7	91.5	93.3	95.2	93.2
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	658.3	691.2	751.4	662.3	593.6
110°	604.5	639.4	714.9	699.6	646.6



(END OF REPORT)