

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: P827193

Luminaire Tested: **OHBL-36HE-N-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827193
REPORT IS A COMBINATION OF REPORTS P826170 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-36HE-N-UNV-L840-CD-UPL18
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

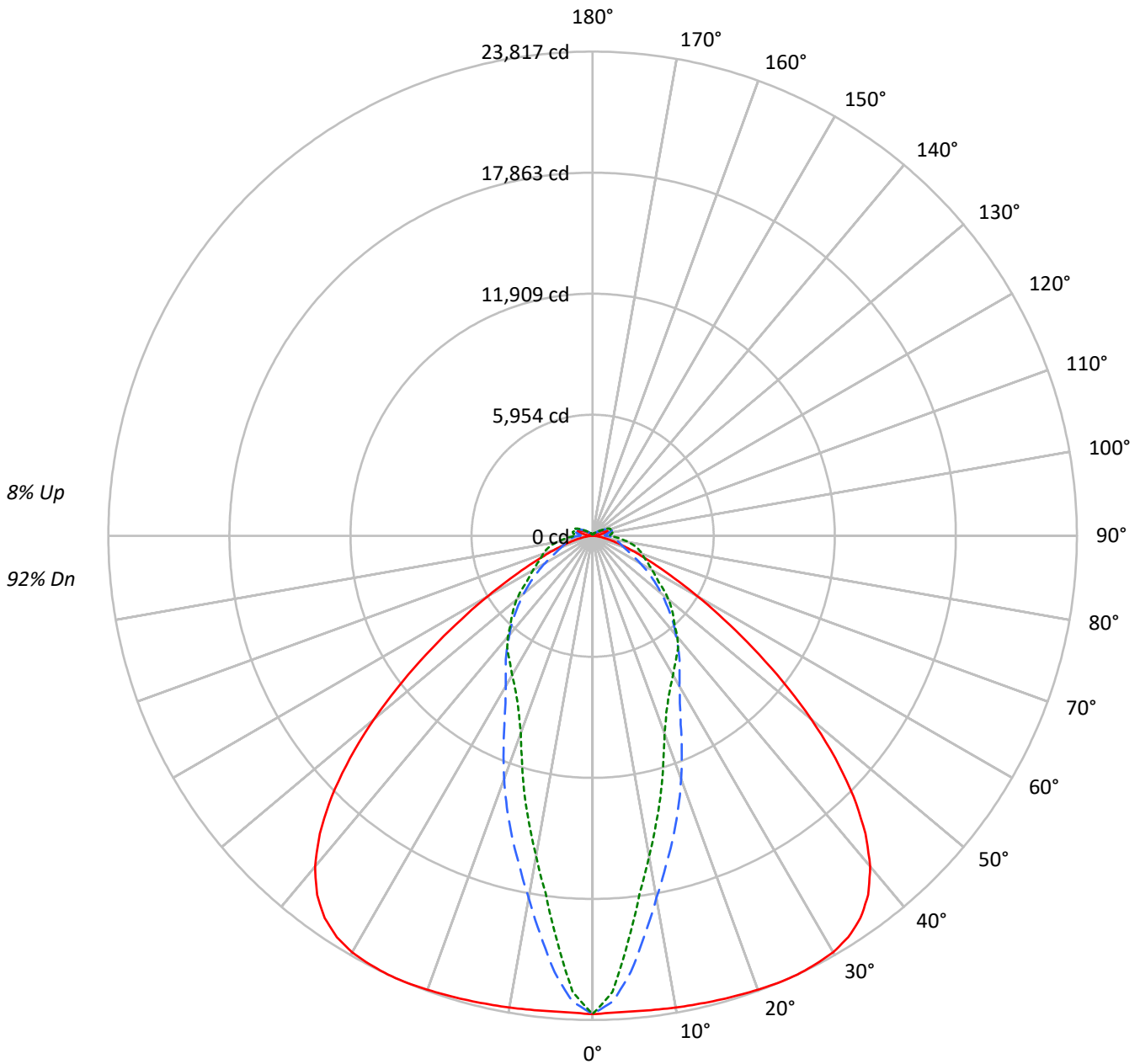
Lumens per Lamp: N/A
Luminaire Lumens: 36514.9 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 224.3
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: P827193

CATALOG NUMBER: OHBL-36HE-N-UNV-L840-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P827193

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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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	95	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	40	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37209	37209	37209
5°	36977	33901	31659
10°	37236	28569	25509
15°	37800	24444	21042
20°	38689	20678	17106
25°	39839	17124	15070
30°	41010	14760	14081
35°	41634	13459	13500
40°	40674	12165	12897
45°	37160	11001	12035
50°	31100	9727	11400
55°	23404	8528	10258
60°	16205	7323	9956
65°	10731	6316	9922
70°	7173	5940	10667
75°	4820	6144	11820
80°	3142	6837	12937
85°	1639	8629	15427



TEST NUMBER: P827193

CATALOG NUMBER: OHBL-36HE-N-UNV-L840-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1980.6	5.4
10°-20°	4659.2	12.8
20°-30°	5840.2	16.0
30°-40°	6197.1	17.0
40°-50°	5603.2	15.3
50°-60°	4062.7	11.1
60°-70°	2549.5	7.0
70°-80°	1687.2	4.6
80°-90°	976.5	2.7
90°-100°	642.1	1.8
100°-110°	919.6	2.5
110°-120°	711.4	1.9
120°-130°	342.5	0.9
130°-140°	167.2	0.5
140°-150°	95.6	0.3
150°-160°	52.2	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	12480.0	34.2
0°-40°	18677.1	51.1
0°-60°	28343.0	77.6
0°-90°	33556.2	91.9
90°-120°	2273.2	6.2
90°-150°	2878.5	7.9
90°-180°	2959.0	8.1
0°-180°	36514.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23528	23528	23528	23528	23528	
5°	23481	22879	21535	20536	20019	###
15°	23660	19285	15317	13622	13004	6710
25°	23817	14911	10256	9103	8814	11003
35°	22964	9913	7443	7210	7208	14275
45°	18154	6279	5394	5524	5618	13829
55°	9611	3892	3520	3818	3955	8684
65°	3437	2257	2038	2611	2902	3577
75°	1061	1216	1368	2125	2253	1183
85°	186	504	1001	1393	1279	223
90°	4	236	614	862	874	15
95°	47	230	640	861	916	128
105°	759	832	998	934	913	721
115°	538	588	769	826	831	542
125°	277	298	397	429	425	259
135°	170	178	212	245	246	135
145°	135	139	147	166	163	85
155°	113	122	125	128	124	49
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827193

CATALOG NUMBER: OHBL-36HE-N-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23528.0	23528.0	23528.0	23528.0	23528.0
2.5°	23478.8	23344.4	22925.7	22670.4	22455.4
5°	23481.0	22878.7	21535.1	20536.4	20019.1
7.5°	23514.6	22175.5	19754.9	18297.1	17728.3
10°	23566.1	21304.4	18093.3	16539.3	16008.6
12.5°	23604.2	20323.6	16631.1	15034.5	14452.3
15°	23660.2	19284.6	15316.6	13621.5	13003.5
17.5°	23711.7	18306.1	14017.8	12246.6	11559.1
20°	23763.2	17251.4	12719.1	10894.1	10327.5
22.5°	23812.4	16138.4	11451.6	9843.8	9456.4
25°	23816.9	14911.3	10255.9	9102.6	8813.8
27.5°	23758.7	13639.4	9286.3	8482.4	8303.2
30°	23657.9	12405.6	8533.9	8034.5	7906.9
32.5°	23407.1	11147.1	7951.7	7602.3	7528.4
35°	22963.7	9913.3	7443.3	7210.5	7208.2
37.5°	22265.1	8818.3	6892.5	6852.2	6901.4
40°	21232.8	7859.8	6370.7	6478.2	6478.2
42.5°	19855.6	7026.8	5898.2	6008.0	5978.9
45°	18153.8	6278.9	5394.4	5524.3	5618.3
47.5°	16181.0	5620.6	4879.4	5130.2	5260.1
50°	14035.8	4993.6	4409.1	4729.3	4877.1
52.5°	11787.5	4413.6	3950.1	4317.3	4436.0
55°	9611.0	3891.9	3520.1	3818.0	3954.6
57.5°	7640.4	3394.7	3099.2	3381.3	3663.5
60°	5945.3	2967.0	2702.8	3105.9	3388.0
62.5°	4541.2	2586.4	2331.1	2848.4	3130.5
65°	3437.3	2257.2	2037.7	2611.0	2902.1
67.5°	2590.8	1972.8	1809.3	2438.6	2723.0
70°	1945.9	1697.4	1625.7	2331.1	2586.4
72.5°	1437.6	1444.3	1480.2	2237.0	2431.9
75°	1061.4	1215.9	1368.2	2125.1	2252.7
77.5°	759.1	1007.7	1267.4	1990.7	2035.5
80°	526.2	821.8	1162.2	1813.8	1775.7
82.5°	329.2	658.3	1068.1	1619.0	1513.7
85°	185.9	503.8	1001.0	1392.8	1278.6
87.5°	82.9	376.2	875.6	1086.0	1014.4
90°	4.0	235.5	614.0	862.3	874.1
92.5°	17.5	207.7	590.2	823.9	854.3
95°	47.0	229.8	639.6	861.2	916.5
97.5°	206.2	342.9	717.2	926.9	969.8
100°	415.4	538.4	795.1	964.4	992.8
102.5°	644.7	735.5	859.3	949.7	961.6
105°	758.9	832.5	997.7	933.6	913.1



TEST NUMBER: P827193

CATALOG NUMBER: OHBL-36HE-N-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	624.4	682.1	873.9	931.8	918.0
115°	537.6	588.4	768.8	825.5	831.2
117.5°	463.9	500.5	661.4	715.4	718.7
120°	391.9	425.7	564.1	608.1	606.1
122.5°	331.9	358.8	475.7	510.8	506.6
125°	276.9	297.8	396.6	429.2	425.0
127.5°	236.6	250.1	333.0	363.4	359.1
130°	208.6	220.1	279.9	312.2	313.2
132.5°	187.4	194.9	241.2	273.5	275.5
135°	170.4	177.9	212.0	245.3	246.3
137.5°	157.4	167.1	189.0	220.1	221.1
140°	146.4	153.9	170.3	199.2	200.2
142.5°	139.6	144.9	156.8	180.2	181.2
145°	134.9	139.1	146.6	165.5	163.3
147.5°	127.9	134.3	138.6	151.8	149.5
150°	121.9	130.6	132.6	140.3	139.1
152.5°	117.9	125.6	127.6	133.1	130.8
155°	112.9	121.6	124.8	128.1	123.6
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	765.9	839.8	1030.4	977.1	905.8
110°	705.2	775.9	974.3	997.1	943.8



(END OF REPORT)