

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: P828405

Luminaire Tested: **OHBL-36SE-N-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

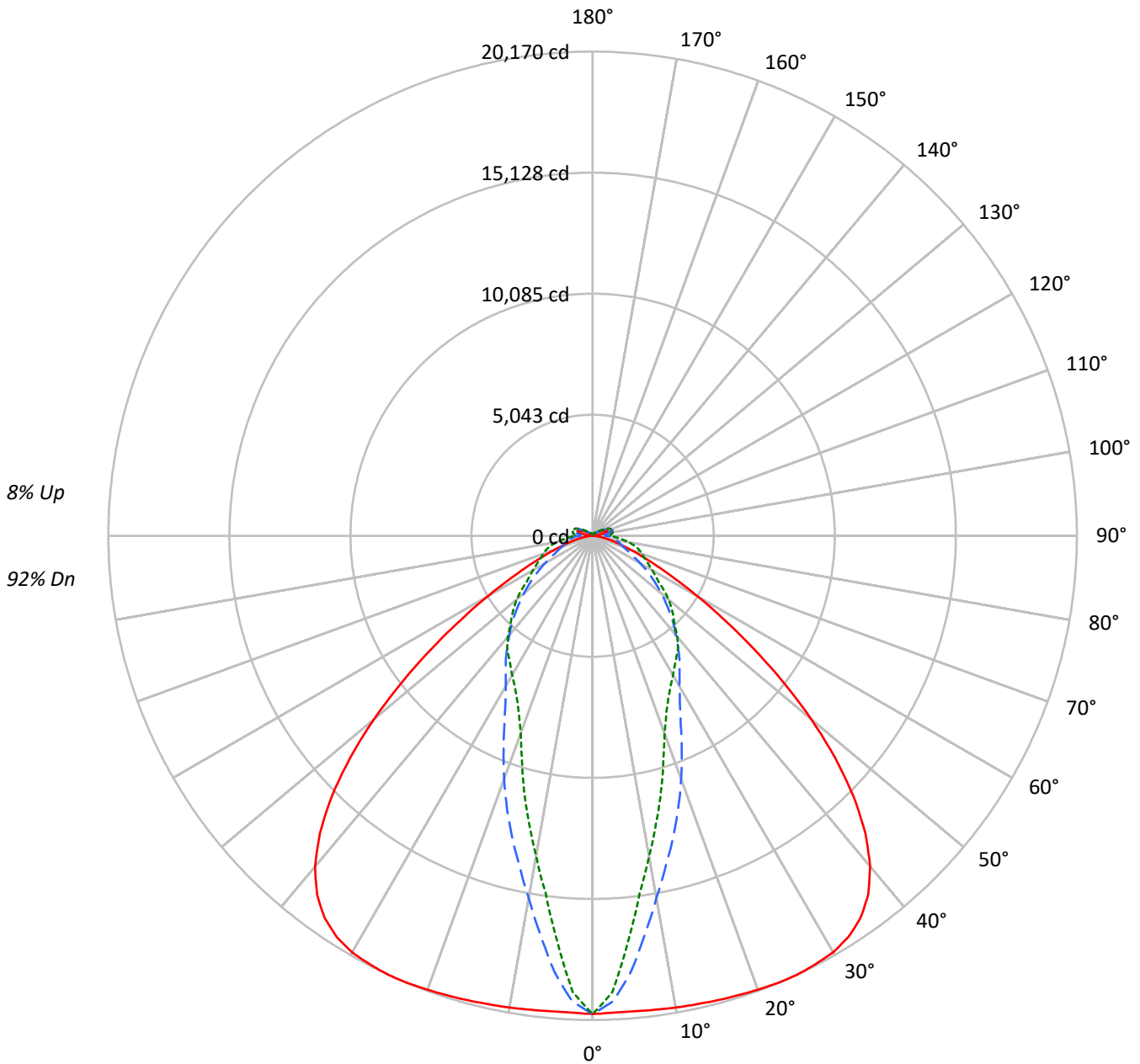
Test Method: LM-79-08  
Report Number: P828405  
REPORT IS A COMBINATION OF REPORTS P826176 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-N-UNV-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30963.5 lumens  
Efficiency: N/A  
Efficacy: 138.7 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): 223.3  
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

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### Luminous Intensity Polar Plot





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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	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	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	73	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	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	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°	31511	31511	31511
5°	31314	28709	26810
10°	31534	24194	21603
15°	32011	20701	17819
20°	32764	17512	14487
25°	33738	14502	12762
30°	34730	12500	11924
35°	35258	11398	11432
40°	34445	10302	10922
45°	31470	9317	10192
50°	26337	8238	9655
55°	19820	7223	8687
60°	13723	6201	8431
65°	9088	5349	8403
70°	6074	5030	9034
75°	4081	5203	10010
80°	2661	5790	10956
85°	1387	7308	13065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1677.3	5.4
10°-20°	3945.7	12.7
20°-30°	4945.8	16.0
30°-40°	5248.1	16.9
40°-50°	4745.1	15.3
50°-60°	3440.5	11.1
60°-70°	2159.1	7.0
70°-80°	1428.8	4.6
80°-90°	827.0	2.7
90°-100°	547.7	1.8
100°-110°	792.2	2.6
110°-120°	614.0	2.0
120°-130°	295.6	1.0
130°-140°	144.4	0.5
140°-150°	82.5	0.3
150°-160°	45.1	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	10568.8	34.1
0°-40°	15816.9	51.1
0°-60°	24002.5	77.5
0°-90°	28417.5	91.8
90°-120°	1954.0	6.3
90°-150°	2476.5	8.0
90°-180°	2546.0	8.2
0°-180°	30963.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19925	19925	19925	19925	19925	
5°	19885	19375	18237	17391	16953	###
15°	20037	16331	12971	11536	11012	5682
25°	20170	12628	8685	7709	7464	9318
35°	19447	8395	6304	6106	6104	12089
45°	15374	5317	4568	4678	4758	11712
55°	8139	3296	2981	3233	3349	7354
65°	2911	1912	1726	2211	2458	3029
75°	899	1030	1159	1800	1908	1002
85°	157	427	848	1180	1083	189
90°	4	200	521	731	741	13
95°	41	196	544	733	780	111
105°	659	722	859	801	782	626
115°	467	510	663	711	716	470
125°	240	258	342	370	366	224
135°	148	154	183	211	212	117
145°	117	120	127	143	141	73
155°	98	105	108	110	107	42
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



TEST NUMBER: P828405

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19925.0	19925.0	19925.0	19925.0	19925.0
2.5°	19883.2	19769.4	19414.9	19198.6	19016.6
5°	19885.2	19375.0	18237.2	17391.4	16953.4
7.5°	19913.6	18779.6	16729.6	15495.1	15013.4
10°	19957.2	18041.8	15322.5	14006.5	13557.0
12.5°	19989.4	17211.3	14084.2	12732.1	12239.1
15°	20036.9	16331.4	12971.1	11535.5	11012.1
17.5°	20080.4	15502.6	11871.1	10371.2	9789.0
20°	20124.1	14609.4	10771.3	9225.8	8746.0
22.5°	20165.8	13667.0	9698.0	8336.3	8008.3
25°	20169.5	12627.8	8685.3	7708.7	7464.0
27.5°	20120.2	11550.7	7864.1	7183.4	7031.6
30°	20035.0	10505.8	7227.0	6804.1	6696.0
32.5°	19822.6	9440.0	6733.9	6438.1	6375.5
35°	19447.0	8395.2	6303.5	6106.3	6104.4
37.5°	18855.4	7467.8	5836.9	5802.8	5844.6
40°	17981.2	6656.2	5395.1	5486.1	5486.1
42.5°	16815.0	5950.7	4995.0	5087.9	5063.3
45°	15373.7	5317.3	4568.3	4678.3	4757.9
47.5°	13703.1	4759.9	4132.1	4344.5	4454.5
50°	11886.3	4228.9	3733.9	4005.1	4130.3
52.5°	9982.4	3737.7	3345.2	3656.2	3756.7
55°	8139.1	3295.9	2981.1	3233.3	3348.9
57.5°	6470.3	2874.9	2624.6	2863.5	3102.4
60°	5034.8	2512.7	2288.9	2630.2	2869.2
62.5°	3845.8	2190.3	1974.1	2412.2	2651.1
65°	2910.9	1911.6	1725.7	2211.2	2457.7
67.5°	2194.0	1670.7	1532.2	2065.1	2305.9
70°	1647.9	1437.5	1376.8	1974.1	2190.3
72.5°	1217.5	1223.1	1253.5	1894.4	2059.5
75°	898.8	1029.7	1158.7	1799.7	1907.7
77.5°	642.9	853.4	1073.3	1685.9	1723.8
80°	445.7	696.0	984.2	1536.0	1503.8
82.5°	278.7	557.5	904.6	1371.0	1281.9
85°	157.4	426.6	847.7	1179.5	1082.8
87.5°	70.2	318.6	741.5	919.7	859.0
90°	3.5	200.0	520.7	731.3	741.3
92.5°	15.1	176.6	501.1	699.5	725.4
95°	40.6	196.5	544.5	733.0	780.5
97.5°	179.0	295.2	612.8	791.4	828.0
100°	360.9	465.5	681.4	825.1	849.3
102.5°	560.2	637.0	738.0	813.5	823.5
105°	659.4	721.6	859.1	800.6	782.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	542.4	591.4	753.5	802.1	789.9
115°	466.9	510.0	662.8	710.7	715.5
117.5°	402.7	433.8	570.1	615.8	618.6
120°	340.1	368.9	486.2	523.4	521.7
122.5°	288.0	310.9	410.1	439.8	436.1
125°	240.1	258.1	342.0	369.5	365.9
127.5°	205.2	216.8	287.2	312.9	309.3
130°	180.8	190.8	241.4	268.8	269.7
132.5°	162.4	168.8	208.1	235.6	237.4
135°	147.6	154.1	183.0	211.4	212.2
137.5°	136.3	144.7	163.3	189.7	190.6
140°	126.8	133.2	147.2	171.6	172.5
142.5°	120.9	125.4	135.5	155.4	156.2
145°	116.7	120.3	126.7	142.8	140.8
147.5°	110.6	116.1	119.7	130.9	129.0
150°	105.4	112.8	114.5	121.1	120.1
152.5°	101.9	108.4	110.2	114.9	112.9
155°	97.6	104.9	107.7	110.5	106.7
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°	665.5	728.1	888.1	839.6	777.2
110°	612.6	672.7	840.1	858.1	811.3



(END OF REPORT)