

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: P828378

Luminaire Tested: **OHBL-30SE-MCL-UNV-L940-CD-UPL30**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828378  
REPORT IS A COMBINATION OF REPORTS P826282 AND G3-2310-221-4  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30SE-MCL-UNV-L940-CD-UPL30  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

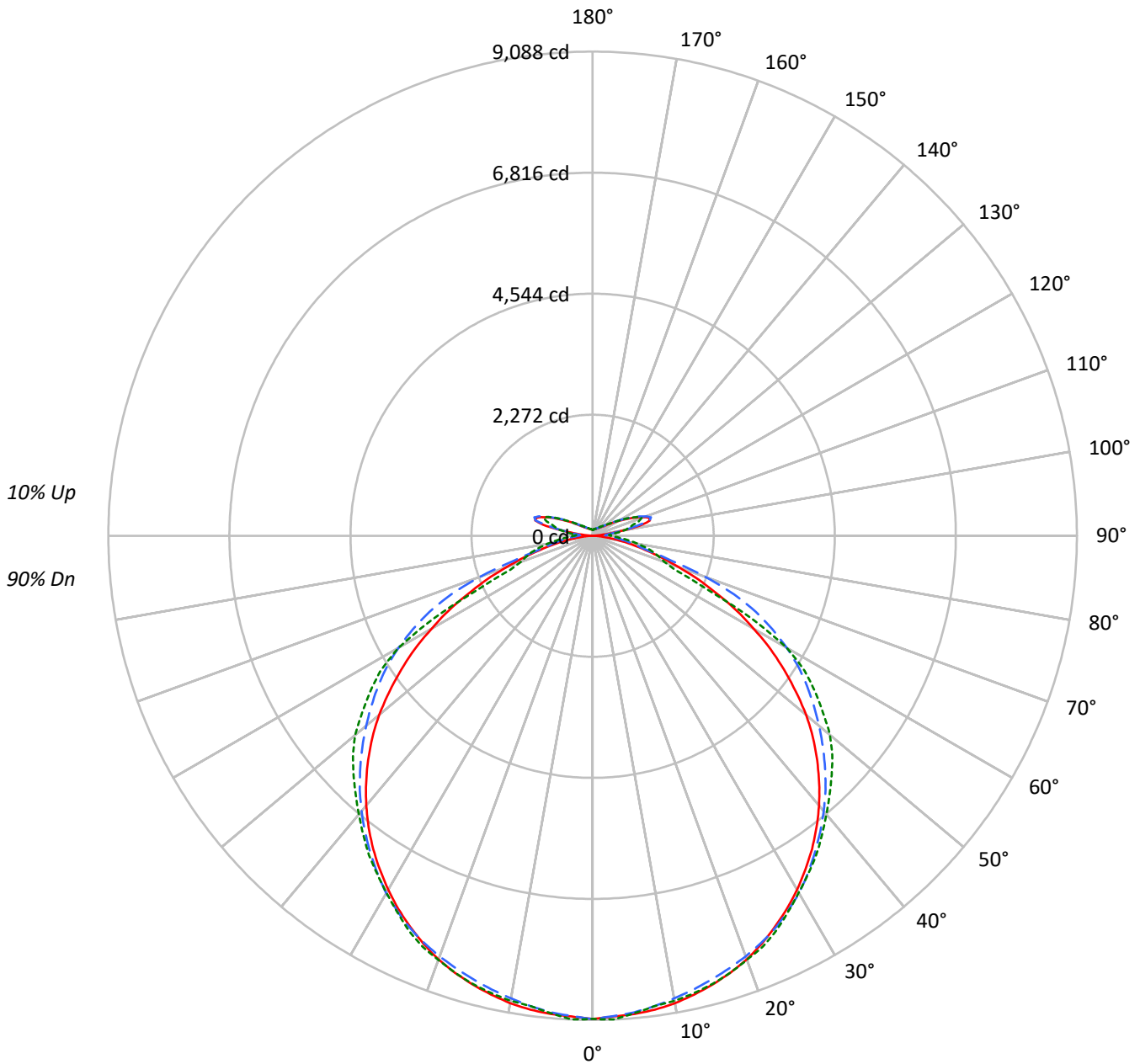
Lumens per Lamp: N/A  
Luminaire Lumens: 28296.9 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 197.2  
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	105	105	105	99	99	99	92	92	92	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22																			

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

	0°	45°	90°
0°	15490	15490	15490
5°	15314	15258	15362
10°	15184	15020	15256
15°	15013	14841	15219
20°	14840	14725	15152
25°	14583	14608	15089
30°	14306	14428	14878
35°	13988	14147	14800
40°	13595	13855	14673
45°	13081	13519	14677
50°	12416	13137	14679
55°	11422	12759	14268
60°	10160	12211	13351
65°	8562	11204	8595
70°	6729	8729	6367
75°	4865	5166	6673
80°	3185	4275	6728
85°	1595	3882	7074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	855.2	3.0
10°-20°	2452.2	8.7
20°-30°	3745.2	13.2
30°-40°	4544.2	16.1
40°-50°	4762.8	16.8
50°-60°	4315.8	15.3
60°-70°	2893.6	10.2
70°-80°	1299.3	4.6
80°-90°	477.2	1.7
90°-100°	347.7	1.2
100°-110°	997.5	3.5
110°-120°	799.6	2.8
120°-130°	380.0	1.3
130°-140°	195.0	0.7
140°-150°	115.1	0.4
150°-160°	68.8	0.2
160°-170°	36.5	0.1
170°-180°	11.2	0.0
0°-30°	7052.5	24.9
0°-40°	11596.8	41.0
0°-60°	20675.4	73.1
0°-90°	25345.5	89.6
90°-120°	2144.8	7.6
90°-150°	2834.9	10.0
90°-180°	2951.0	10.4
0°-180°	28296.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9069	9069	9069	9069	9069	
5°	9010	9042	8979	9006	8994	857
15°	8718	8684	8622	8698	8709	2461
25°	8099	8064	8120	8195	8171	3733
35°	7178	7195	7269	7346	7317	4487
45°	5957	6054	6167	6325	6344	4589
55°	4384	4595	4908	5105	5093	3913
65°	2573	2975	3378	2851	2328	2564
75°	1012	1469	1080	1106	1178	1106
85°	174	334	429	518	543	213
90°	7	147	269	331	344	15
95°	51	170	274	339	355	181
105°	1116	1149	1108	866	777	1054
115°	777	783	804	818	805	778
125°	387	399	423	416	412	362
135°	234	239	246	257	258	184
145°	174	178	182	185	186	111
155°	143	147	148	150	149	67
165°	126	127	128	129	129	36
175°	115	116	115	114	114	11
180°	113	113	113	113	113	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9069.3	9069.3	9069.3	9069.3	<i>9069.3</i>
2.5°	<i>9032.6</i>	<i>9070.6</i>	<i>9023.4</i>	<i>9074.5</i>	<i>9087.6</i>
5°	9010.2	9041.7	8978.8	9006.3	<i>8994.5</i>
7.5°	8969.6	8980.1	8905.4	8927.6	<i>8904.1</i>
10°	8909.3	8904.1	8816.2	8859.5	<i>8864.7</i>
12.5°	8820.1	8804.3	8725.7	8791.3	<i>8792.6</i>
15°	8717.8	8683.8	8622.1	8698.2	<i>8708.6</i>
17.5°	8599.8	8555.2	8514.6	8612.9	<i>8597.2</i>
20°	8462.1	8409.7	8401.8	8509.3	<i>8470.0</i>
22.5°	8291.6	8251.0	8269.4	8371.6	<i>8346.8</i>
25°	8098.9	8063.5	8119.8	8194.6	<i>8171.0</i>
27.5°	7895.6	7874.6	7938.9	7996.6	<i>7950.7</i>
30°	7672.7	7660.8	7746.1	7793.4	<i>7735.6</i>
32.5°	7430.1	7434.0	7515.3	7579.6	<i>7525.8</i>
35°	7178.3	7195.3	7268.8	7346.2	<i>7317.3</i>
37.5°	6901.6	6939.6	7013.1	7100.9	<i>7070.8</i>
40°	6609.2	6664.3	6745.6	6851.7	<i>6824.3</i>
42.5°	6293.1	6362.7	6467.5	6585.6	<i>6583.0</i>
45°	5957.4	6054.5	6167.2	6324.6	<i>6344.3</i>
47.5°	5608.6	5717.5	5860.4	6070.2	<i>6100.4</i>
50°	5229.6	5366.0	5544.4	5796.2	<i>5814.5</i>
52.5°	4807.4	4993.6	5229.6	5471.0	<i>5448.6</i>
55°	4383.8	4594.9	4908.4	5105.0	<i>5093.3</i>
57.5°	3961.5	4198.9	4579.2	4719.5	<i>4718.2</i>
60°	3489.5	3789.8	4205.5	4311.7	<i>4206.8</i>
62.5°	3052.8	3375.4	3806.9	3729.5	<i>3370.1</i>
65°	2572.9	2975.4	3378.1	2850.9	<i>2327.7</i>
67.5°	2146.7	2566.3	2869.3	1952.6	<i>1671.9</i>
70°	1717.8	2180.7	2237.2	1449.0	<i>1429.4</i>
72.5°	1337.6	1830.6	1543.4	1240.5	<i>1303.5</i>
75°	1012.4	1468.7	1080.5	1105.5	<i>1177.6</i>
77.5°	738.2	1127.8	840.6	969.1	<i>1028.1</i>
80°	507.5	798.6	685.8	814.3	<i>855.0</i>
82.5°	318.7	527.1	549.5	655.6	<i>697.6</i>
85°	174.4	334.4	428.8	518.0	<i>542.9</i>
87.5°	72.2	202.0	327.9	399.9	<i>421.0</i>
90°	7.4	147.1	268.6	331.1	<i>344.1</i>
92.5°	19.6	129.5	238.3	294.7	<i>305.6</i>
95°	50.9	169.5	273.9	338.8	<i>355.3</i>
97.5°	305.2	355.9	388.0	456.9	<i>496.0</i>
100°	601.2	677.1	576.6	606.7	<i>615.0</i>
102.5°	947.7	996.6	838.7	728.3	<i>706.2</i>
105°	1115.5	1149.1	1107.7	866.1	<i>776.9</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	899.5	915.6	942.7	943.3	925.0
115°	777.4	782.6	804.0	818.0	804.9
117.5°	657.4	664.3	685.7	686.7	682.3
120°	554.8	563.9	579.2	580.5	574.9
122.5°	465.2	478.3	497.1	494.0	487.5
125°	386.6	399.2	422.6	416.2	412.3
127.5°	330.5	338.3	356.6	359.7	356.6
130°	286.1	294.4	309.6	316.6	315.7
132.5°	257.0	264.4	274.4	282.2	281.4
135°	233.5	239.2	245.7	256.6	257.9
137.5°	214.0	220.1	224.4	234.4	235.7
140°	199.2	203.5	206.6	213.5	215.7
142.5°	184.8	189.6	192.7	198.3	200.5
145°	173.5	177.5	181.8	184.8	186.1
147.5°	164.4	167.9	171.4	173.1	174.4
150°	156.6	159.2	162.7	163.5	164.4
152.5°	149.6	151.4	154.0	155.7	155.7
155°	142.7	146.6	148.3	150.1	148.8
157.5°	137.5	140.5	142.2	143.1	144.0
160°	133.1	135.3	137.0	137.9	138.8
162.5°	129.2	130.9	131.8	132.7	133.5
165°	125.7	126.6	127.5	129.2	129.2
167.5°	122.2	124.4	124.0	124.9	124.9
170°	119.6	120.5	121.4	120.1	120.1
172.5°	117.0	117.9	118.8	117.5	117.5
175°	115.3	116.2	114.9	114.4	114.4
177.5°	115.7	115.3	114.0	112.7	112.2
180°	113.1	113.1	113.1	113.1	113.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1115.9	1150.0	1148.4	1026.8	907.7
110°	1025.1	1056.5	1067.5	1035.0	976.7



(END OF REPORT)