

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: P#

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-RDP-UNV-L850-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

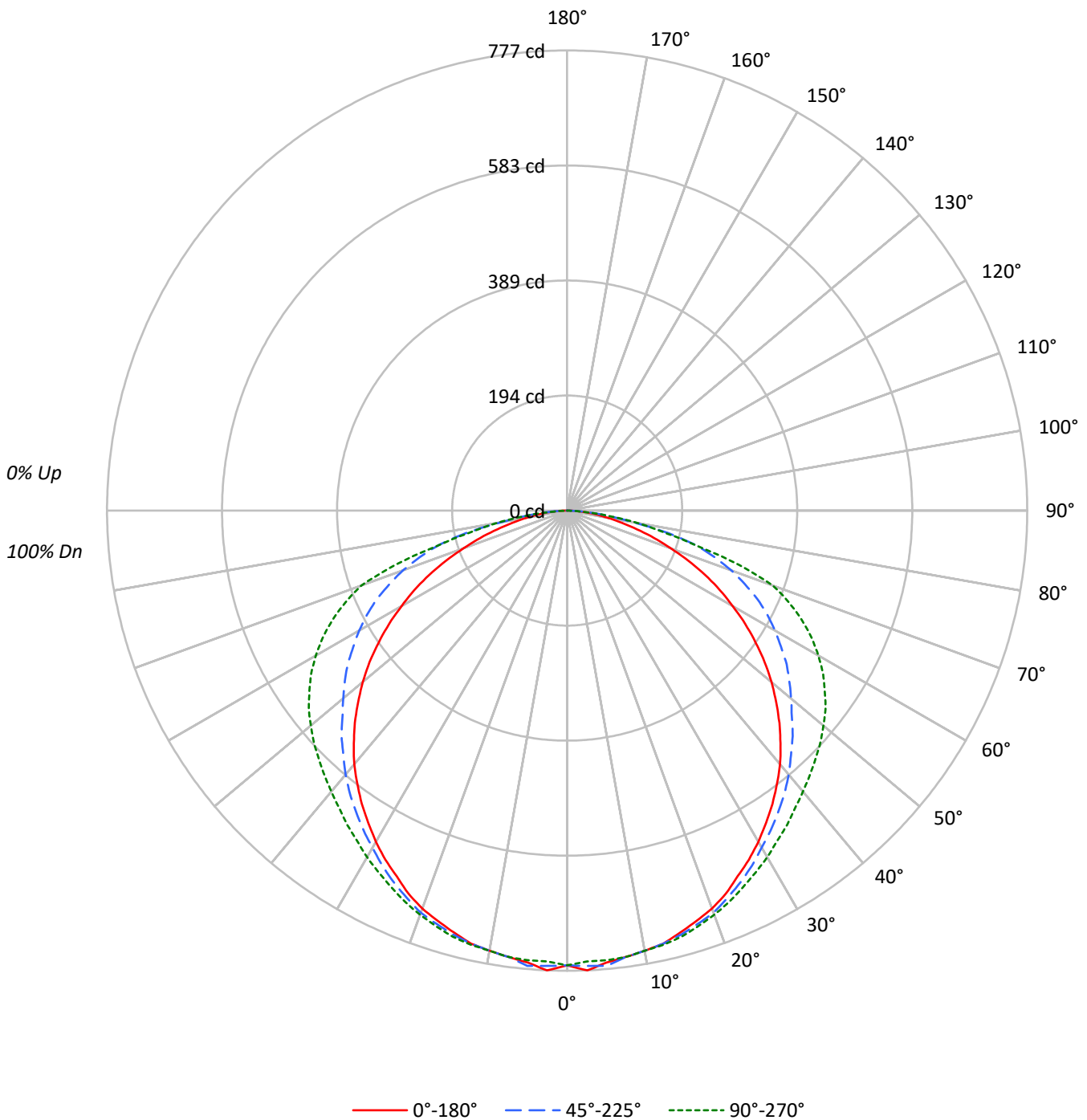
Lumens per Lamp: N/A  
Luminaire Lumens: 2417.2 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 29.4  
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



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

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

	0°	45°	90°
0°	2066	2066	2066
5°	2060	2071	2050
10°	2044	2037	2044
15°	2028	2027	2049
20°	2011	2018	2043
25°	1977	1991	2037
30°	1950	1961	2041
35°	1918	1945	2055
40°	1886	1930	2089
45°	1837	1915	2150
50°	1780	1906	2232
55°	1702	1928	2326
60°	1599	1944	2426
65°	1479	1962	2515
70°	1285	1941	2558
75°	1069	1838	1941
80°	839	1226	1450
85°	589	640	664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	3.0
10°-20°	209.3	8.7
20°-30°	319.0	13.2
30°-40°	390.3	16.1
40°-50°	420.0	17.4
50°-60°	406.8	16.8
60°-70°	344.6	14.3
70°-80°	208.3	8.6
80°-90°	45.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	601.3	24.9
0°-40°	991.6	41.0
0°-60°	1818.4	75.2
0°-90°	2417.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	766	766	772	768	762	73
15°	738	740	742	743	745	208
25°	681	685	693	698	702	315
35°	604	608	621	638	648	378
45°	507	516	539	572	593	391
55°	389	406	452	505	531	347
65°	257	285	355	411	437	253
75°	122	165	223	227	222	131
85°	30	36	38	36	34	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	767.7	767.7	767.7	767.7	767.7
2.5°	777.1	775.3	769.6	765.9	762.1
5°	765.9	765.9	771.5	767.7	762.1
7.5°	760.2	760.2	760.2	769.6	760.2
10°	754.6	756.5	754.6	762.1	754.6
12.5°	749.0	749.0	749.0	750.8	750.8
15°	737.7	739.6	741.5	743.3	745.2
17.5°	726.4	728.3	732.1	734.0	735.8
20°	715.2	717.1	722.7	722.7	726.4
22.5°	700.2	700.2	707.7	709.6	715.2
25°	681.4	685.2	692.7	698.3	702.0
27.5°	664.5	668.3	675.8	683.3	688.9
30°	645.7	649.5	657.0	668.3	675.8
32.5°	625.1	628.8	640.1	653.2	660.7
35°	604.4	608.2	621.3	638.2	647.6
37.5°	581.9	587.5	602.6	621.3	632.6
40°	559.4	565.0	581.9	602.6	619.5
42.5°	533.1	540.6	559.4	587.5	606.3
45°	506.8	516.2	538.7	572.5	593.2
47.5°	478.7	488.1	514.3	557.5	580.0
50°	450.5	461.8	493.7	540.6	565.0
52.5°	420.5	431.7	473.0	523.7	550.0
55°	388.6	405.5	452.4	504.9	531.2
57.5°	356.7	375.4	428.0	484.3	512.5
60°	322.9	345.4	405.5	461.8	489.9
62.5°	291.0	315.4	381.1	437.4	465.5
65°	257.2	285.3	354.8	411.1	437.4
67.5°	221.5	257.2	324.7	379.2	405.5
70°	185.8	227.1	294.7	345.4	369.8
72.5°	153.9	197.1	260.9	304.1	304.1
75°	122.0	165.2	223.4	227.1	221.5
77.5°	93.9	135.2	174.6	159.6	163.3
80°	69.5	103.2	110.8	116.4	120.1
82.5°	46.9	69.5	71.3	75.1	75.1
85°	30.0	35.7	37.5	35.7	33.8
87.5°	13.1	15.0	11.3	7.5	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)