

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-LD5-39SE-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-LD5-39SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

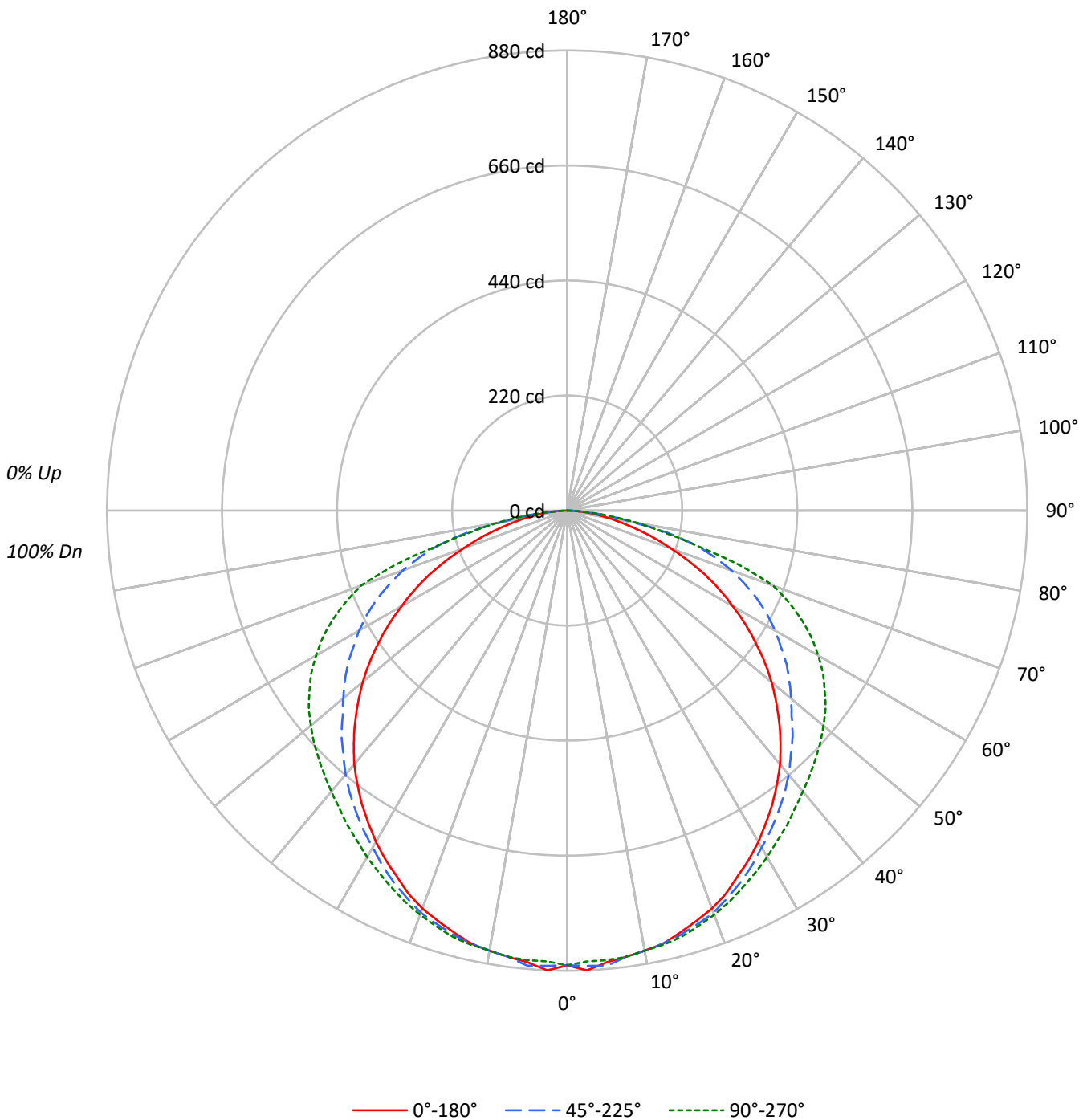
Lumens per Lamp: N/A
Luminaire Lumens: 2737.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): 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°	2340	2340	2340
5°	2333	2345	2321
10°	2315	2306	2315
15°	2297	2296	2320
20°	2278	2285	2314
25°	2239	2255	2307
30°	2208	2221	2311
35°	2173	2202	2328
40°	2135	2185	2365
45°	2080	2168	2435
50°	2016	2158	2528
55°	1927	2183	2634
60°	1811	2201	2748
65°	1675	2221	2848
70°	1455	2198	2897
75°	1211	2081	2198
80°	949	1387	1642
85°	668	726	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.0
10°-20°	237.1	8.7
20°-30°	361.3	13.2
30°-40°	442.0	16.1
40°-50°	475.6	17.4
50°-60°	460.7	16.8
60°-70°	390.2	14.3
70°-80°	235.9	8.6
80°-90°	51.8	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°	680.9	24.9
0°-40°	1122.9	41.0
0°-60°	2059.1	75.2
0°-90°	2737.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	867	867	874	869	863	82
15°	835	838	840	842	844	236
25°	772	776	784	791	795	356
35°	684	689	704	723	733	428
45°	574	585	610	648	672	442
55°	440	459	512	572	602	393
65°	291	323	402	466	495	287
75°	138	187	253	257	251	148
85°	34	40	42	40	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.4	869.4	869.4	869.4	869.4
2.5°	880.0	877.9	871.5	867.3	863.0
5°	867.3	867.3	873.6	869.4	863.0
7.5°	860.9	860.9	860.9	871.5	860.9
10°	854.5	856.6	854.5	863.0	854.5
12.5°	848.1	848.1	848.1	850.3	850.3
15°	835.4	837.5	839.6	841.8	843.9
17.5°	822.6	824.8	829.0	831.1	833.3
20°	809.9	812.0	818.4	818.4	822.6
22.5°	792.9	792.9	801.4	803.5	809.9
25°	771.6	775.9	784.4	790.7	795.0
27.5°	752.5	756.7	765.2	773.7	780.1
30°	731.2	735.5	744.0	756.7	765.2
32.5°	707.8	712.1	724.8	739.7	748.2
35°	684.5	688.7	703.6	722.7	733.4
37.5°	659.0	665.3	682.3	703.6	716.3
40°	633.4	639.8	659.0	682.3	701.5
42.5°	603.7	612.2	633.4	665.3	686.6
45°	573.9	584.6	610.1	648.3	671.7
47.5°	542.0	552.7	582.4	631.3	656.8
50°	510.2	522.9	559.0	612.2	639.8
52.5°	476.1	488.9	535.7	593.1	622.8
55°	440.0	459.1	512.3	571.8	601.6
57.5°	403.9	425.1	484.6	548.4	580.3
60°	365.6	391.1	459.1	522.9	554.8
62.5°	329.5	357.1	431.5	495.3	527.2
65°	291.2	323.1	401.7	465.5	495.3
67.5°	250.8	291.2	367.7	429.4	459.1
70°	210.4	257.2	333.7	391.1	418.8
72.5°	174.3	223.2	295.5	344.4	344.4
75°	138.2	187.1	253.0	257.2	250.8
77.5°	106.3	153.0	197.7	180.7	184.9
80°	78.6	116.9	125.4	131.8	136.0
82.5°	53.1	78.6	80.8	85.0	85.0
85°	34.0	40.4	42.5	40.4	38.3
87.5°	14.9	17.0	12.8	8.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)