

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: P345143

Luminaire Tested: **22CZ-32SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-3)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-32SE-L835-HRP-UNV-CD1-U  
Description: CRUZE 2X2 WITH HRP LENS INSERT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2829.1 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

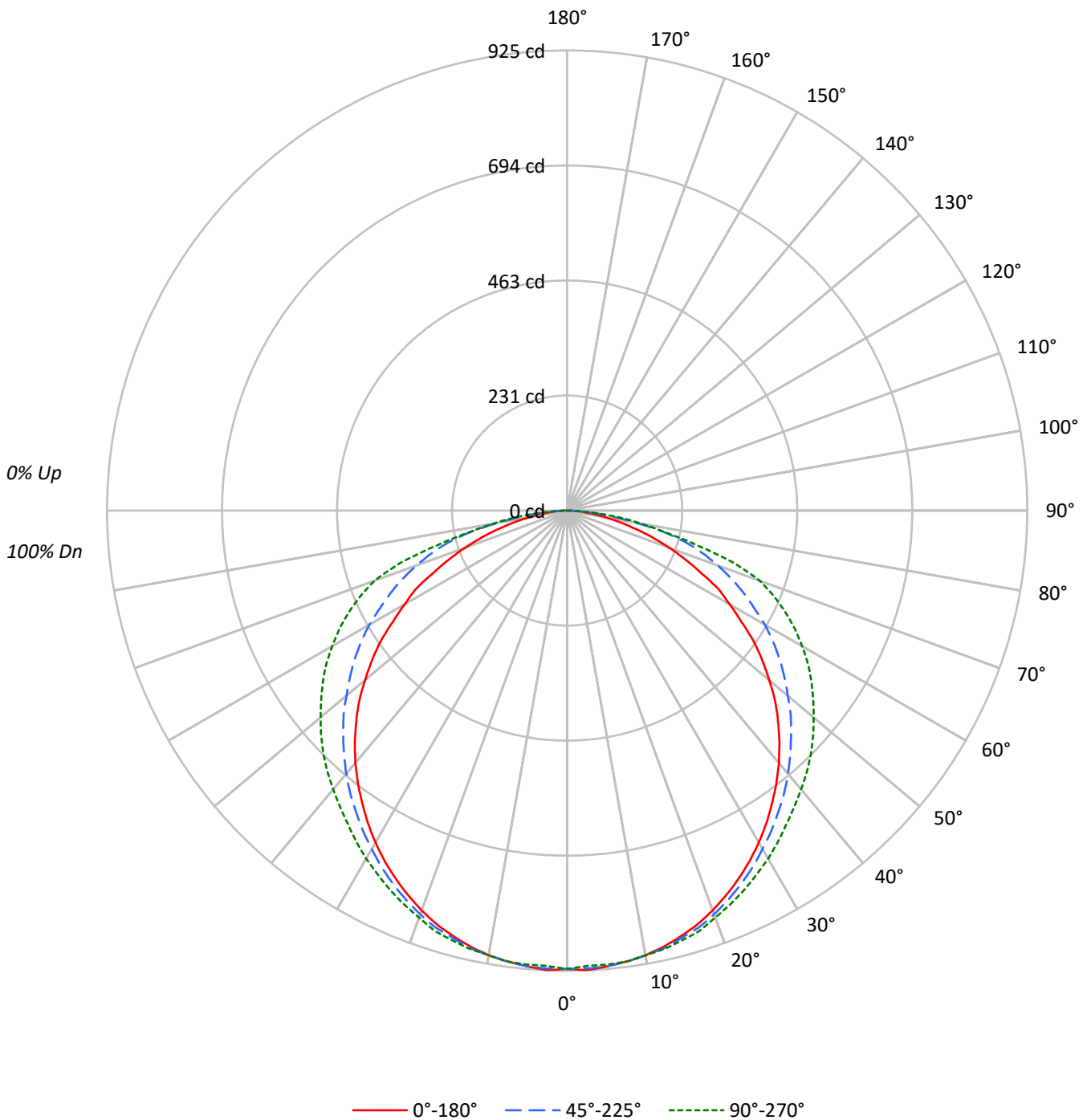
Input Watts (W): 30.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

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

	0°	45°	90°
0°	2479	2479	2479
5°	2484	2484	2475
10°	2480	2480	2480
15°	2467	2477	2491
20°	2449	2473	2493
25°	2423	2459	2499
30°	2394	2441	2510
35°	2359	2431	2526
40°	2326	2427	2570
45°	2281	2423	2636
50°	2219	2424	2708
55°	2145	2447	2813
60°	2032	2470	2935
65°	1897	2491	3084
70°	1719	2531	3238
75°	1478	2570	2834
80°	1207	2152	2335
85°	994	1568	1726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	3.1
10°-20°	251.2	8.9
20°-30°	381.8	13.5
30°-40°	464.6	16.4
40°-50°	494.9	17.5
50°-60°	468.2	16.5
60°-70°	385.8	13.6
70°-80°	237.3	8.4
80°-90°	57.9	2.0
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°	720.3	25.5
0°-40°	1184.9	41.9
0°-60°	2148.0	75.9
0°-90°	2829.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	920	920	920	918	916	87
15°	886	887	889	892	894	250
25°	816	820	828	836	842	376
35°	718	725	740	759	769	449
45°	600	610	637	672	693	462
55°	457	474	522	572	600	407
65°	298	327	391	454	484	296
75°	142	181	247	269	273	152
85°	32	42	51	54	56	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	921.2	921.2	921.2	921.2	921.2
2.5°	924.6	922.9	921.2	917.8	916.1
5°	919.5	919.5	919.5	917.8	916.1
7.5°	914.4	914.4	914.4	914.4	914.4
10°	907.7	907.7	907.7	907.7	907.7
12.5°	897.5	899.2	900.9	900.9	902.6
15°	885.7	887.4	889.0	892.4	894.1
17.5°	872.1	873.8	878.9	882.3	885.7
20°	855.2	856.9	863.6	867.0	870.4
22.5°	836.5	839.9	846.7	853.5	856.9
25°	816.2	819.6	828.1	836.5	841.6
27.5°	794.2	797.6	807.8	819.6	824.7
30°	770.5	773.9	785.7	799.3	807.8
32.5°	745.1	750.2	763.7	780.7	789.1
35°	718.0	724.8	740.0	758.7	768.8
37.5°	690.9	697.7	716.3	738.3	750.2
40°	662.1	670.6	690.9	716.3	731.6
42.5°	631.6	641.8	663.8	694.3	712.9
45°	599.5	609.6	636.7	672.3	692.6
47.5°	567.3	579.1	609.6	648.6	670.6
50°	530.0	543.6	579.1	624.9	646.9
52.5°	494.5	511.4	550.4	599.5	623.2
55°	457.2	474.2	521.6	572.4	599.5
57.5°	414.9	435.2	491.1	545.3	574.1
60°	377.6	398.0	458.9	516.5	545.3
62.5°	343.8	362.4	423.4	486.0	516.5
65°	298.0	326.8	391.2	453.8	484.3
67.5°	257.4	289.6	357.3	416.6	450.4
70°	218.5	252.3	321.7	379.3	411.5
72.5°	179.5	216.8	286.2	337.0	353.9
75°	142.2	181.2	247.2	269.3	272.6
77.5°	108.4	147.3	199.8	198.1	201.5
80°	77.9	111.8	138.9	143.9	150.7
82.5°	52.5	77.9	89.8	98.2	105.0
85°	32.2	42.3	50.8	54.2	55.9
87.5°	15.2	16.9	16.9	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)