

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: P345145

Luminaire Tested: **22CZ-32SE-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345145
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-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3121.4 lumens
Efficiency: N/A
Efficacy: 102.3 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

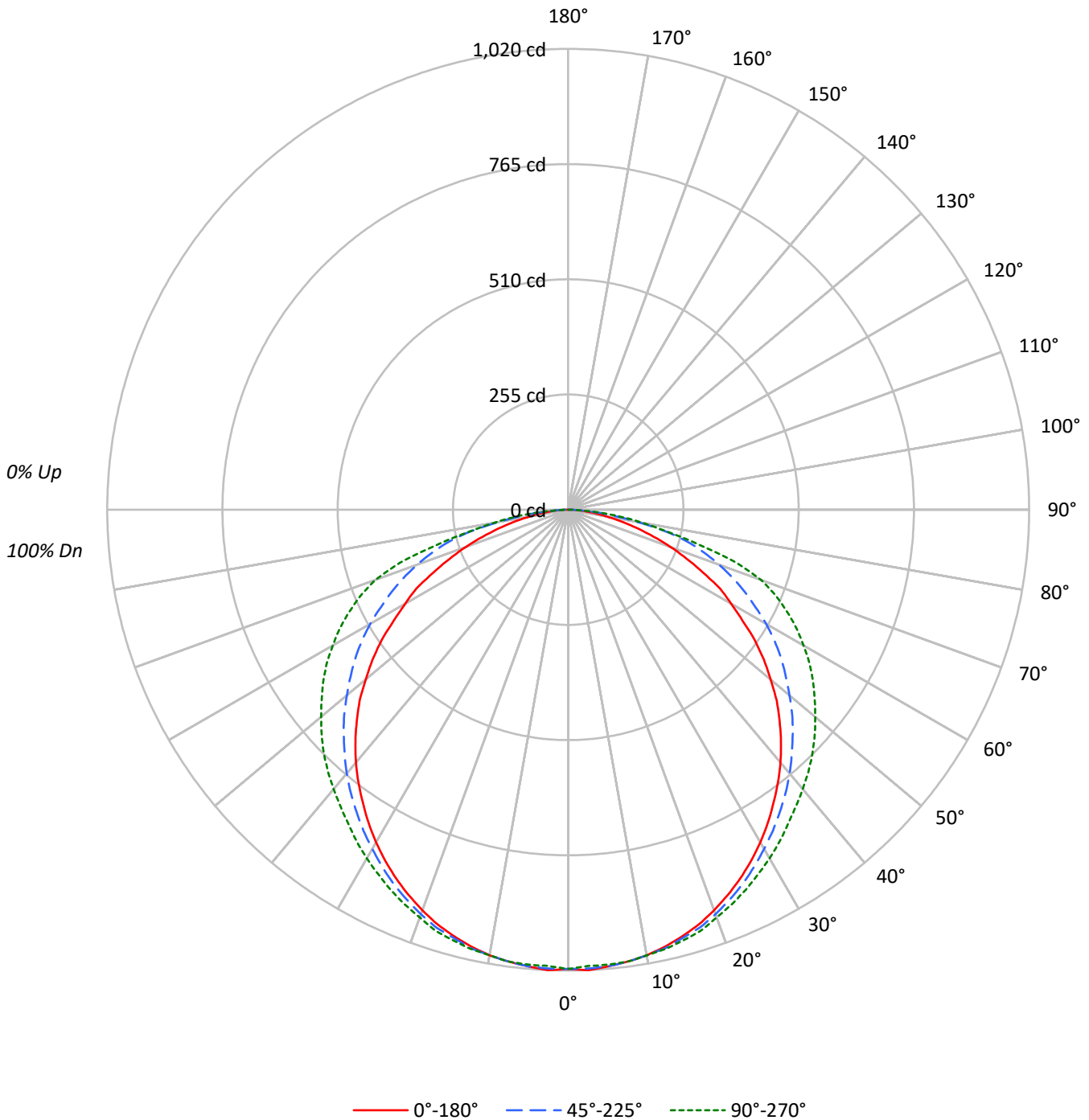
Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2735	2735	2735
5°	2740	2740	2730
10°	2737	2737	2737
15°	2722	2733	2748
20°	2702	2729	2750
25°	2674	2713	2757
30°	2641	2694	2769
35°	2602	2682	2787
40°	2566	2678	2836
45°	2517	2673	2908
50°	2448	2675	2988
55°	2367	2700	3103
60°	2243	2725	3238
65°	2094	2748	3403
70°	1896	2793	3572
75°	1631	2836	3127
80°	1331	2374	2577
85°	1096	1732	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.1
10°-20°	277.1	8.9
20°-30°	421.3	13.5
30°-40°	512.6	16.4
40°-50°	546.0	17.5
50°-60°	516.5	16.5
60°-70°	425.7	13.6
70°-80°	261.8	8.4
80°-90°	63.9	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°	794.8	25.5
0°-40°	1307.4	41.9
0°-60°	2370.0	75.9
0°-90°	3121.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1014	1014	1014	1013	1011	96
15°	977	979	981	985	986	276
25°	901	904	914	923	929	415
35°	792	800	816	837	848	496
45°	661	673	702	742	764	510
55°	504	523	576	632	661	449
65°	329	361	432	501	534	327
75°	157	200	273	297	301	168
85°	36	47	56	60	62	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.4	1016.4	1016.4	1016.4	1016.4
2.5°	1020.2	1018.3	1016.4	1012.7	1010.8
5°	1014.5	1014.5	1014.5	1012.7	1010.8
7.5°	1008.9	1008.9	1008.9	1008.9	1008.9
10°	1001.5	1001.5	1001.5	1001.5	1001.5
12.5°	990.3	992.1	994.0	994.0	995.9
15°	977.2	979.0	980.9	984.7	986.5
17.5°	962.2	964.1	969.7	973.4	977.2
20°	943.5	945.4	952.9	956.6	960.4
22.5°	923.0	926.7	934.2	941.7	945.4
25°	900.6	904.3	913.7	923.0	928.6
27.5°	876.3	880.0	891.2	904.3	909.9
30°	850.1	853.9	866.9	881.9	891.2
32.5°	822.1	827.7	842.7	861.3	870.7
35°	792.2	799.7	816.5	837.0	848.3
37.5°	762.3	769.8	790.3	814.6	827.7
40°	730.6	739.9	762.3	790.3	807.2
42.5°	696.9	708.1	732.4	766.1	786.6
45°	661.4	672.6	702.5	741.8	764.2
47.5°	625.9	639.0	672.6	715.6	739.9
50°	584.8	599.8	639.0	689.4	713.7
52.5°	545.6	564.3	607.2	661.4	687.6
55°	504.5	523.2	575.5	631.5	661.4
57.5°	457.8	480.2	541.8	601.6	633.4
60°	416.7	439.1	506.3	569.9	601.6
62.5°	379.3	399.8	467.1	536.2	569.9
65°	328.8	360.6	431.6	500.7	534.4
67.5°	284.0	319.5	394.2	459.6	497.0
70°	241.0	278.4	355.0	418.5	454.0
72.5°	198.1	239.2	315.8	371.8	390.5
75°	156.9	199.9	272.8	297.1	300.8
77.5°	119.6	162.6	220.5	218.6	222.3
80°	85.9	123.3	153.2	158.8	166.3
82.5°	57.9	85.9	99.0	108.4	115.8
85°	35.5	46.7	56.1	59.8	61.7
87.5°	16.8	18.7	18.7	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)