

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: P345142

Luminaire Tested: **22CZ-32SE-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345142
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.5 lumens
Efficiency: N/A
Efficacy: 91.9 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

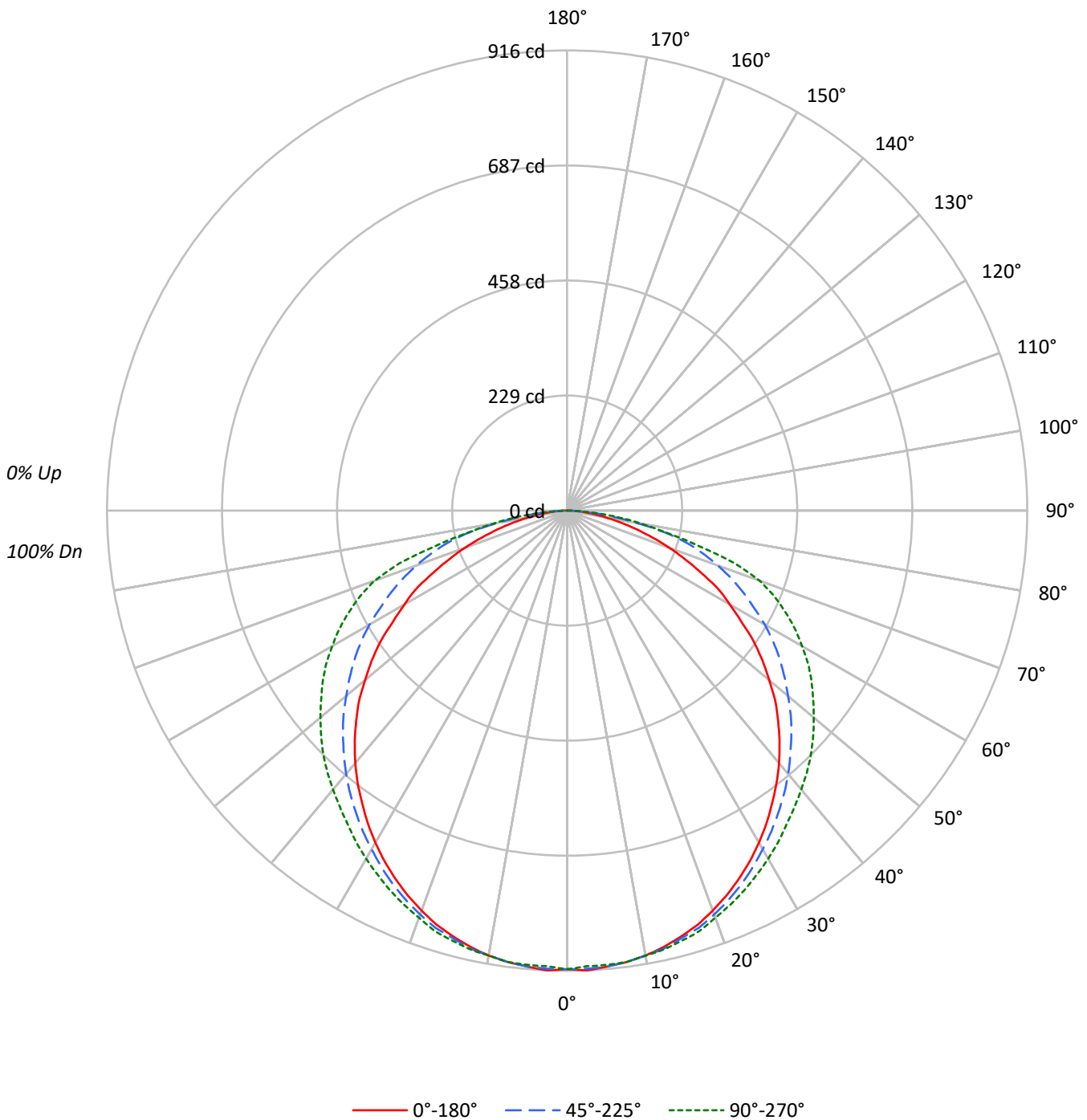
Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2457	2457	2457
5°	2461	2461	2452
10°	2458	2458	2458
15°	2445	2454	2468
20°	2427	2451	2470
25°	2401	2436	2476
30°	2372	2419	2487
35°	2337	2409	2503
40°	2305	2405	2546
45°	2261	2401	2612
50°	2199	2403	2683
55°	2126	2425	2787
60°	2014	2448	2908
65°	1880	2468	3056
70°	1703	2508	3209
75°	1466	2547	2809
80°	1196	2132	2314
85°	985	1553	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.1
10°-20°	248.9	8.9
20°-30°	378.4	13.5
30°-40°	460.4	16.4
40°-50°	490.4	17.5
50°-60°	463.9	16.5
60°-70°	382.4	13.6
70°-80°	235.2	8.4
80°-90°	57.4	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°	713.8	25.5
0°-40°	1174.2	41.9
0°-60°	2128.5	75.9
0°-90°	2803.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	911	911	911	910	908	87
15°	878	879	881	884	886	248
25°	809	812	821	829	834	373
35°	712	718	733	752	762	445
45°	594	604	631	666	686	458
55°	453	470	517	567	594	403
65°	295	324	388	450	480	293
75°	141	180	245	267	270	151
85°	32	42	50	54	55	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.9	912.9	912.9	912.9	912.9
2.5°	916.2	914.6	912.9	909.5	907.8
5°	911.2	911.2	911.2	909.5	907.8
7.5°	906.2	906.2	906.2	906.2	906.2
10°	899.5	899.5	899.5	899.5	899.5
12.5°	889.4	891.1	892.7	892.7	894.4
15°	877.6	879.3	881.0	884.4	886.0
17.5°	864.2	865.9	870.9	874.3	877.6
20°	847.4	849.1	855.8	859.2	862.5
22.5°	829.0	832.3	839.0	845.8	849.1
25°	808.8	812.2	820.6	829.0	834.0
27.5°	787.0	790.4	800.4	812.2	817.2
30°	763.5	766.9	778.6	792.1	800.4
32.5°	738.4	743.4	756.8	773.6	782.0
35°	711.5	718.2	733.3	751.8	761.9
37.5°	684.7	691.4	709.8	731.6	743.4
40°	656.1	664.5	684.7	709.8	724.9
42.5°	625.9	636.0	657.8	688.0	706.5
45°	594.0	604.1	631.0	666.2	686.3
47.5°	562.2	573.9	604.1	642.7	664.5
50°	525.2	538.7	573.9	619.2	641.0
52.5°	490.0	506.8	545.4	594.0	617.5
55°	453.1	469.9	516.8	567.2	594.0
57.5°	411.1	431.3	486.6	540.3	568.9
60°	374.2	394.3	454.8	511.8	540.3
62.5°	340.7	359.1	419.5	481.6	511.8
65°	295.3	323.9	387.6	449.7	479.9
67.5°	255.1	287.0	354.1	412.8	446.4
70°	216.5	250.0	318.8	375.9	407.8
72.5°	177.9	214.8	283.6	333.9	350.7
75°	141.0	179.6	245.0	266.8	270.2
77.5°	107.4	146.0	198.0	196.3	199.7
80°	77.2	110.8	137.6	142.6	149.3
82.5°	52.0	77.2	88.9	97.3	104.0
85°	31.9	42.0	50.3	53.7	55.4
87.5°	15.1	16.8	16.8	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)