

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: P345144

Luminaire Tested: **22CZ-32SE-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345144
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-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2885.6 lumens
Efficiency: N/A
Efficacy: 94.6 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

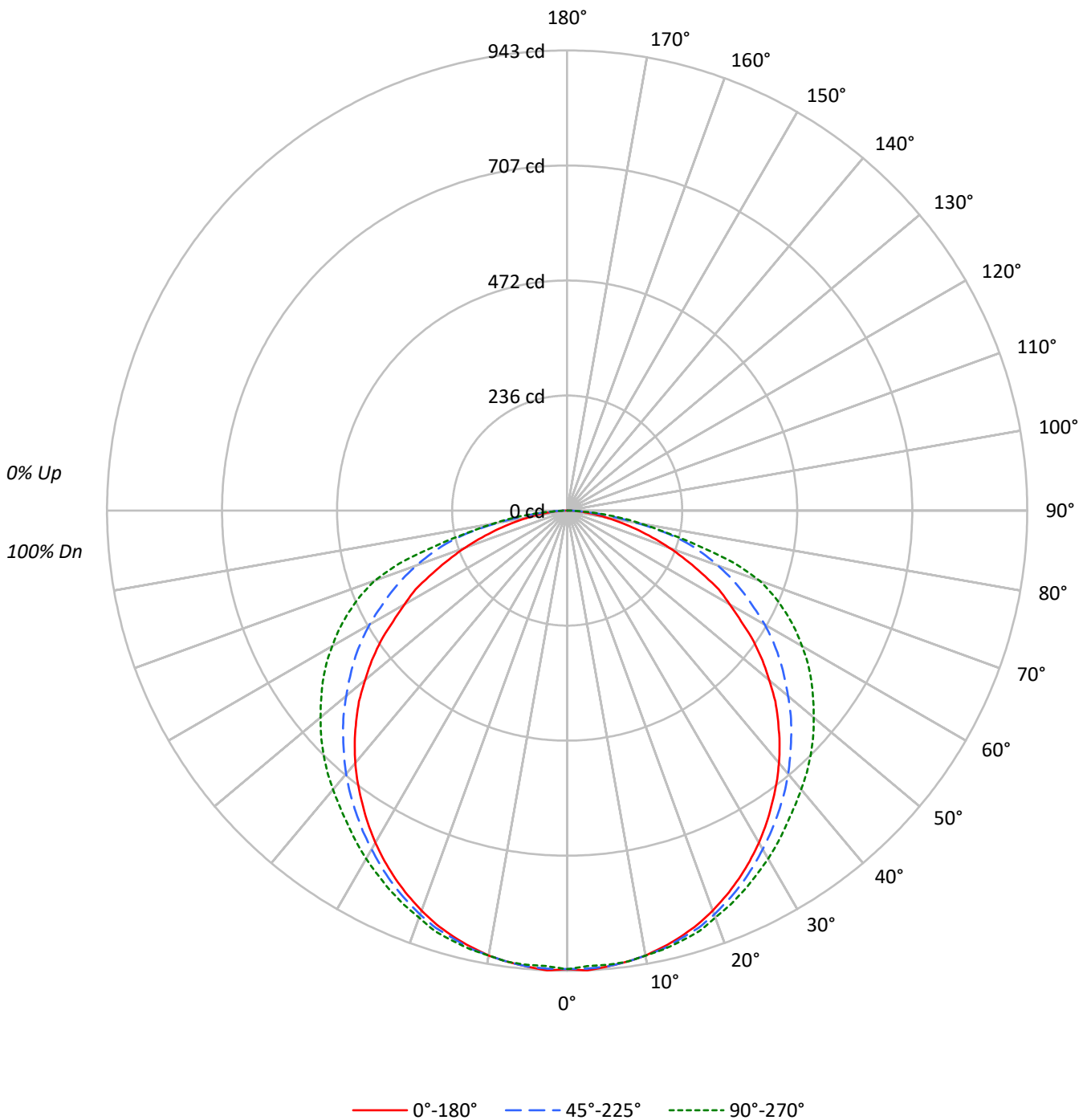
Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2528	2528	2528
5°	2534	2534	2524
10°	2530	2530	2530
15°	2517	2526	2541
20°	2498	2523	2542
25°	2472	2508	2549
30°	2442	2490	2560
35°	2406	2480	2576
40°	2373	2475	2621
45°	2327	2471	2688
50°	2263	2473	2762
55°	2188	2496	2868
60°	2073	2519	2993
65°	1936	2541	3145
70°	1753	2582	3302
75°	1509	2622	2891
80°	1232	2194	2382
85°	1013	1599	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.1
10°-20°	256.2	8.9
20°-30°	389.4	13.5
30°-40°	473.9	16.4
40°-50°	504.8	17.5
50°-60°	477.5	16.5
60°-70°	393.6	13.6
70°-80°	242.1	8.4
80°-90°	59.1	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°	734.7	25.5
0°-40°	1208.6	41.9
0°-60°	2190.9	75.9
0°-90°	2885.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	938	938	938	936	934	89
15°	903	905	907	910	912	255
25°	832	836	845	853	858	384
35°	732	739	755	774	784	458
45°	611	622	649	686	706	471
55°	466	484	532	584	611	415
65°	304	333	399	463	494	302
75°	145	185	252	275	278	155
85°	33	43	52	55	57	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.6	939.6	939.6	939.6	939.6
2.5°	943.1	941.4	939.6	936.2	934.4
5°	937.9	937.9	937.9	936.2	934.4
7.5°	932.7	932.7	932.7	932.7	932.7
10°	925.8	925.8	925.8	925.8	925.8
12.5°	915.4	917.2	918.9	918.9	920.6
15°	903.4	905.1	906.8	910.3	912.0
17.5°	889.5	891.3	896.4	899.9	903.4
20°	872.3	874.0	880.9	884.4	887.8
22.5°	853.3	856.7	863.6	870.5	874.0
25°	832.5	836.0	844.6	853.3	858.4
27.5°	810.1	813.5	823.9	836.0	841.2
30°	785.9	789.4	801.4	815.3	823.9
32.5°	760.0	765.2	779.0	796.3	804.9
35°	732.4	739.3	754.8	773.8	784.2
37.5°	704.7	711.6	730.6	753.1	765.2
40°	675.4	684.0	704.7	730.6	746.2
42.5°	644.3	654.6	677.1	708.2	727.2
45°	611.4	621.8	649.4	685.7	706.4
47.5°	578.6	590.7	621.8	661.5	684.0
50°	540.6	554.4	590.7	637.4	659.8
52.5°	504.4	521.6	561.4	611.4	635.6
55°	466.4	483.6	532.0	583.8	611.4
57.5°	423.2	443.9	500.9	556.2	585.5
60°	385.2	405.9	468.1	526.8	556.2
62.5°	350.6	369.6	431.8	495.7	526.8
65°	304.0	333.4	399.0	462.9	494.0
67.5°	262.5	295.4	364.5	424.9	459.4
70°	222.8	257.4	328.2	386.9	419.7
72.5°	183.1	221.1	291.9	343.7	361.0
75°	145.1	184.8	252.2	274.6	278.1
77.5°	110.5	150.3	203.8	202.1	205.5
80°	79.5	114.0	141.6	146.8	153.7
82.5°	53.5	79.5	91.5	100.2	107.1
85°	32.8	43.2	51.8	55.3	57.0
87.5°	15.5	17.3	17.3	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)