

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: P345113

Luminaire Tested: **22CZ-20-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345113
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-20-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.3 lumens
Efficiency: N/A
Efficacy: 124.0 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

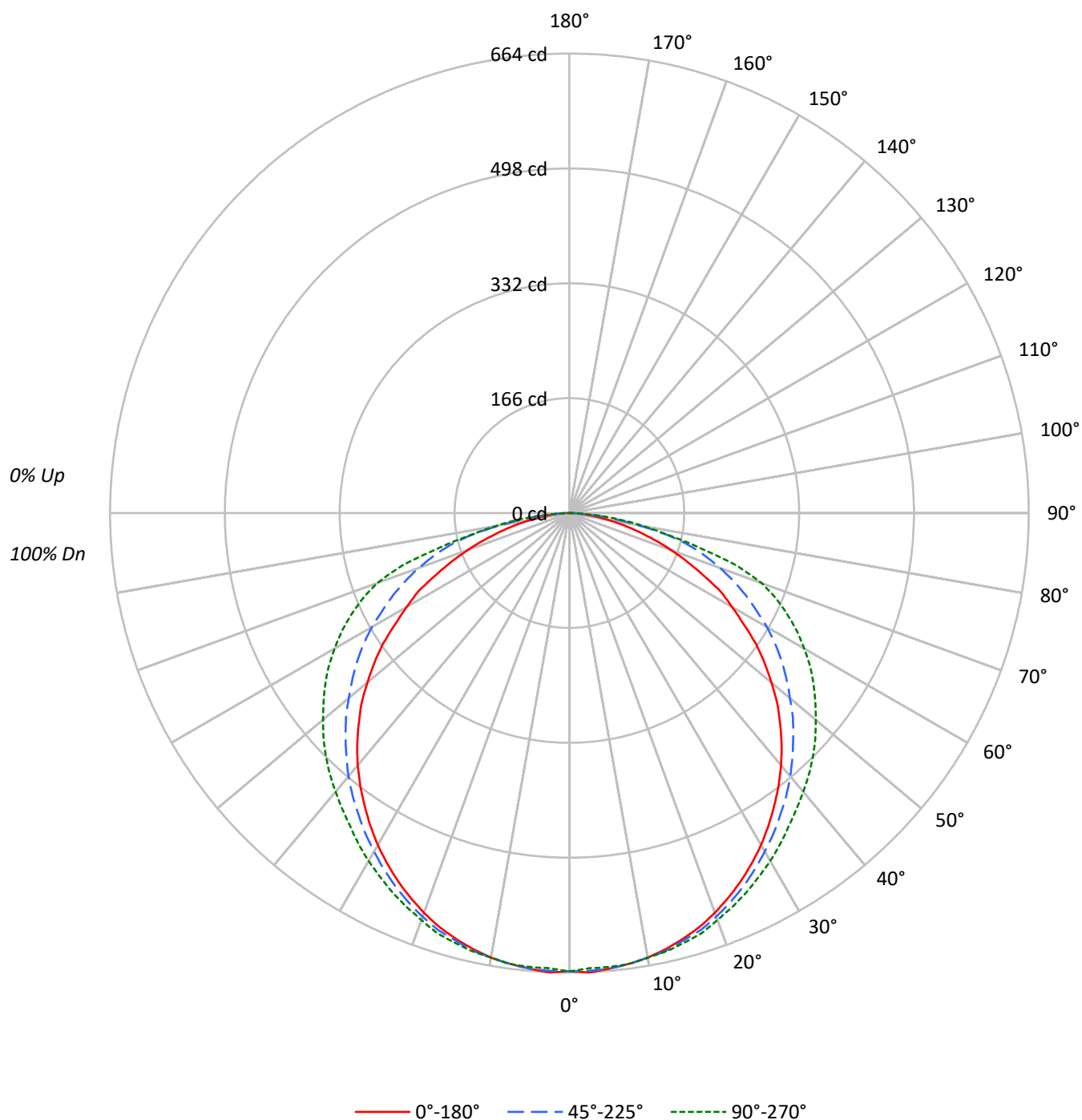
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1782	1782	1782
5°	1785	1785	1779
10°	1782	1782	1782
15°	1773	1780	1790
20°	1760	1777	1792
25°	1742	1767	1796
30°	1721	1755	1804
35°	1695	1747	1815
40°	1672	1744	1847
45°	1639	1741	1894
50°	1595	1742	1946
55°	1542	1759	2021
60°	1461	1775	2109
65°	1364	1790	2216
70°	1235	1819	2327
75°	1063	1848	2037
80°	868	1547	1678
85°	713	1127	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.1
10°-20°	180.5	8.9
20°-30°	274.4	13.5
30°-40°	333.9	16.4
40°-50°	355.7	17.5
50°-60°	336.5	16.5
60°-70°	277.3	13.6
70°-80°	170.6	8.4
80°-90°	41.6	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°	517.7	25.5
0°-40°	851.6	41.9
0°-60°	1543.8	75.9
0°-90°	2033.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	661	661	661	660	658	63
15°	636	638	639	641	643	180
25°	587	589	595	601	605	270
35°	516	521	532	545	552	323
45°	431	438	458	483	498	332
55°	329	341	375	411	431	292
65°	214	235	281	326	348	213
75°	102	130	178	194	196	110
85°	23	30	36	39	40	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	664.5	663.3	662.1	659.6	658.4
5°	660.9	660.9	660.9	659.6	658.4
7.5°	657.2	657.2	657.2	657.2	657.2
10°	652.3	652.3	652.3	652.3	652.3
12.5°	645.0	646.3	647.5	647.5	648.7
15°	636.5	637.7	639.0	641.4	642.6
17.5°	626.8	628.0	631.7	634.1	636.5
20°	614.6	615.8	620.7	623.1	625.6
22.5°	601.2	603.7	608.5	613.4	615.8
25°	586.6	589.1	595.1	601.2	604.9
27.5°	570.8	573.2	580.5	589.1	592.7
30°	553.8	556.2	564.7	574.5	580.5
32.5°	535.5	539.2	548.9	561.1	567.2
35°	516.0	520.9	531.9	545.2	552.5
37.5°	496.6	501.4	514.8	530.6	539.2
40°	475.9	482.0	496.6	514.8	525.8
42.5°	454.0	461.3	477.1	499.0	512.4
45°	430.8	438.1	457.6	483.2	497.8
47.5°	407.7	416.2	438.1	466.1	482.0
50°	380.9	390.7	416.2	449.1	464.9
52.5°	355.4	367.6	395.5	430.8	447.9
55°	328.6	340.8	374.9	411.4	430.8
57.5°	298.2	312.8	352.9	391.9	412.6
60°	271.4	286.0	329.8	371.2	391.9
62.5°	247.1	260.5	304.3	349.3	371.2
65°	214.2	234.9	281.1	326.2	348.1
67.5°	185.0	208.1	256.8	299.4	323.7
70°	157.0	181.3	231.2	272.6	295.7
72.5°	129.0	155.8	205.7	242.2	254.4
75°	102.2	130.2	177.7	193.5	195.9
77.5°	77.9	105.9	143.6	142.4	144.8
80°	56.0	80.3	99.8	103.5	108.3
82.5°	37.7	56.0	64.5	70.6	75.5
85°	23.1	30.4	36.5	38.9	40.2
87.5°	11.0	12.2	12.2	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)