

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: P345137

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345137
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-20SE-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2016.5 lumens
Efficiency: N/A
Efficacy: 117.2 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

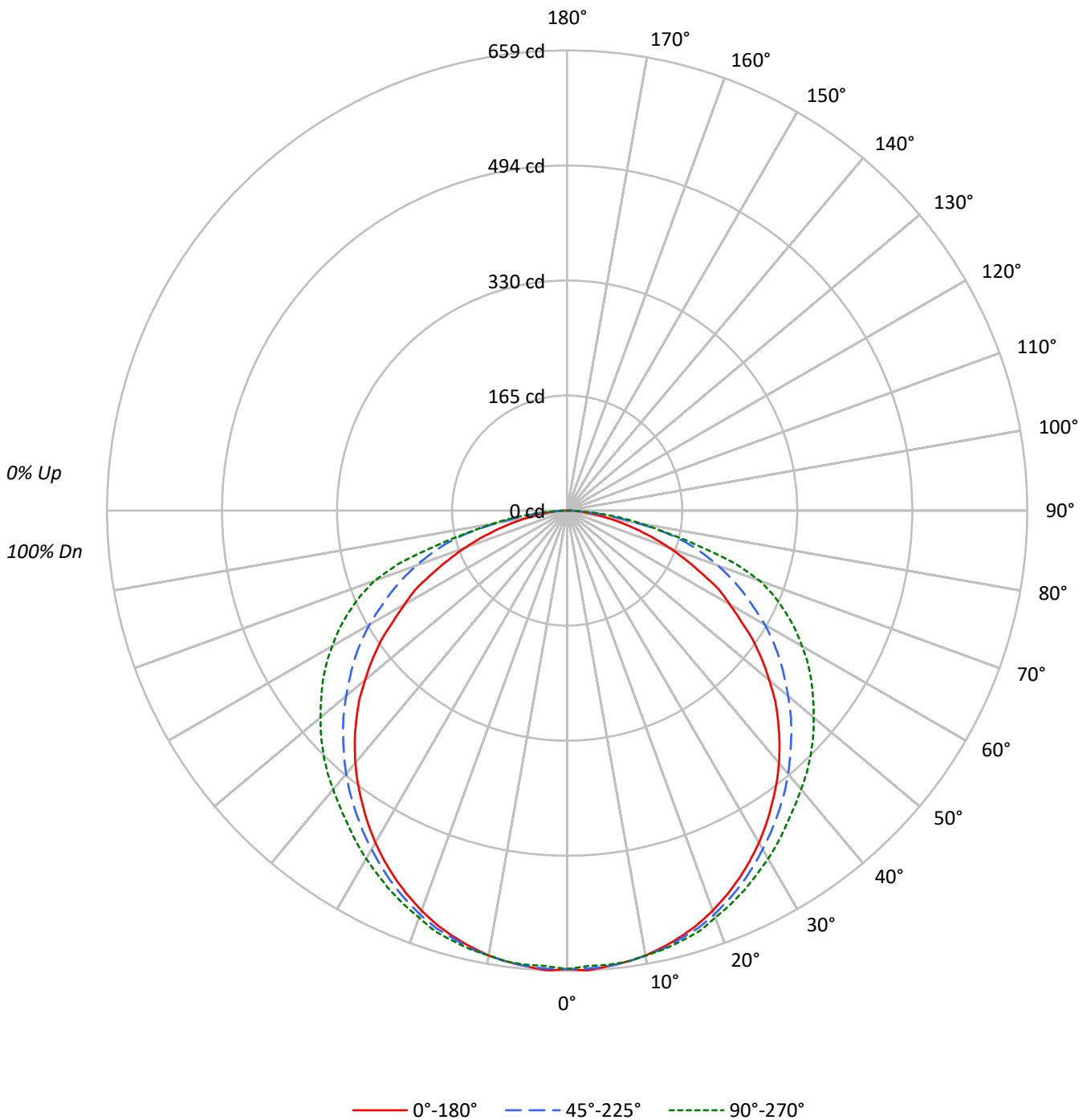
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1767	1767	1767
5°	1770	1770	1764
10°	1768	1768	1768
15°	1759	1765	1775
20°	1745	1763	1777
25°	1727	1752	1781
30°	1707	1740	1789
35°	1681	1733	1800
40°	1658	1730	1832
45°	1626	1727	1879
50°	1582	1728	1930
55°	1529	1744	2005
60°	1449	1760	2092
65°	1352	1775	2198
70°	1225	1804	2308
75°	1054	1832	2020
80°	860	1534	1664
85°	707	1118	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.1
10°-20°	179.0	8.9
20°-30°	272.1	13.5
30°-40°	331.2	16.4
40°-50°	352.8	17.5
50°-60°	333.7	16.5
60°-70°	275.0	13.6
70°-80°	169.1	8.4
80°-90°	41.3	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°	513.4	25.5
0°-40°	844.6	41.9
0°-60°	1531.0	75.9
0°-90°	2016.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	655	655	655	654	653	62
15°	631	632	634	636	637	178
25°	582	584	590	596	600	268
35°	512	517	528	541	548	320
45°	427	434	454	479	494	329
55°	326	338	372	408	427	290
65°	212	233	279	324	345	211
75°	101	129	176	192	194	109
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°	656.6	656.6	656.6	656.6	656.6
2.5°	659.0	657.8	656.6	654.2	653.0
5°	655.4	655.4	655.4	654.2	653.0
7.5°	651.8	651.8	651.8	651.8	651.8
10°	647.0	647.0	647.0	647.0	647.0
12.5°	639.7	640.9	642.1	642.1	643.3
15°	631.3	632.5	633.7	636.1	637.3
17.5°	621.6	622.8	626.4	628.9	631.3
20°	609.5	610.7	615.6	618.0	620.4
22.5°	596.3	598.7	603.5	608.3	610.7
25°	581.8	584.2	590.2	596.3	599.9
27.5°	566.1	568.5	575.7	584.2	587.8
30°	549.2	551.6	560.1	569.7	575.7
32.5°	531.1	534.7	544.4	556.4	562.5
35°	511.8	516.6	527.5	540.7	548.0
37.5°	492.5	497.3	510.6	526.3	534.7
40°	471.9	478.0	492.5	510.6	521.4
42.5°	450.2	457.5	473.1	494.9	508.2
45°	427.3	434.5	453.8	479.2	493.7
47.5°	404.4	412.8	434.5	462.3	478.0
50°	377.8	387.5	412.8	445.4	461.1
52.5°	352.4	364.5	392.3	427.3	444.2
55°	325.9	338.0	371.8	408.0	427.3
57.5°	295.7	310.2	350.0	388.7	409.2
60°	269.2	283.6	327.1	368.1	388.7
62.5°	245.0	258.3	301.8	346.4	368.1
65°	212.4	233.0	278.8	323.5	345.2
67.5°	183.5	206.4	254.7	296.9	321.1
70°	155.7	179.8	229.3	270.4	293.3
72.5°	127.9	154.5	204.0	240.2	252.3
75°	101.4	129.2	176.2	191.9	194.3
77.5°	77.2	105.0	142.4	141.2	143.6
80°	55.5	79.7	99.0	102.6	107.4
82.5°	37.4	55.5	64.0	70.0	74.8
85°	22.9	30.2	36.2	38.6	39.8
87.5°	10.9	12.1	12.1	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)