

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: P345110

Luminaire Tested: **22CZ-20-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345110
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1825.7 lumens
Efficiency: N/A
Efficacy: 111.3 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

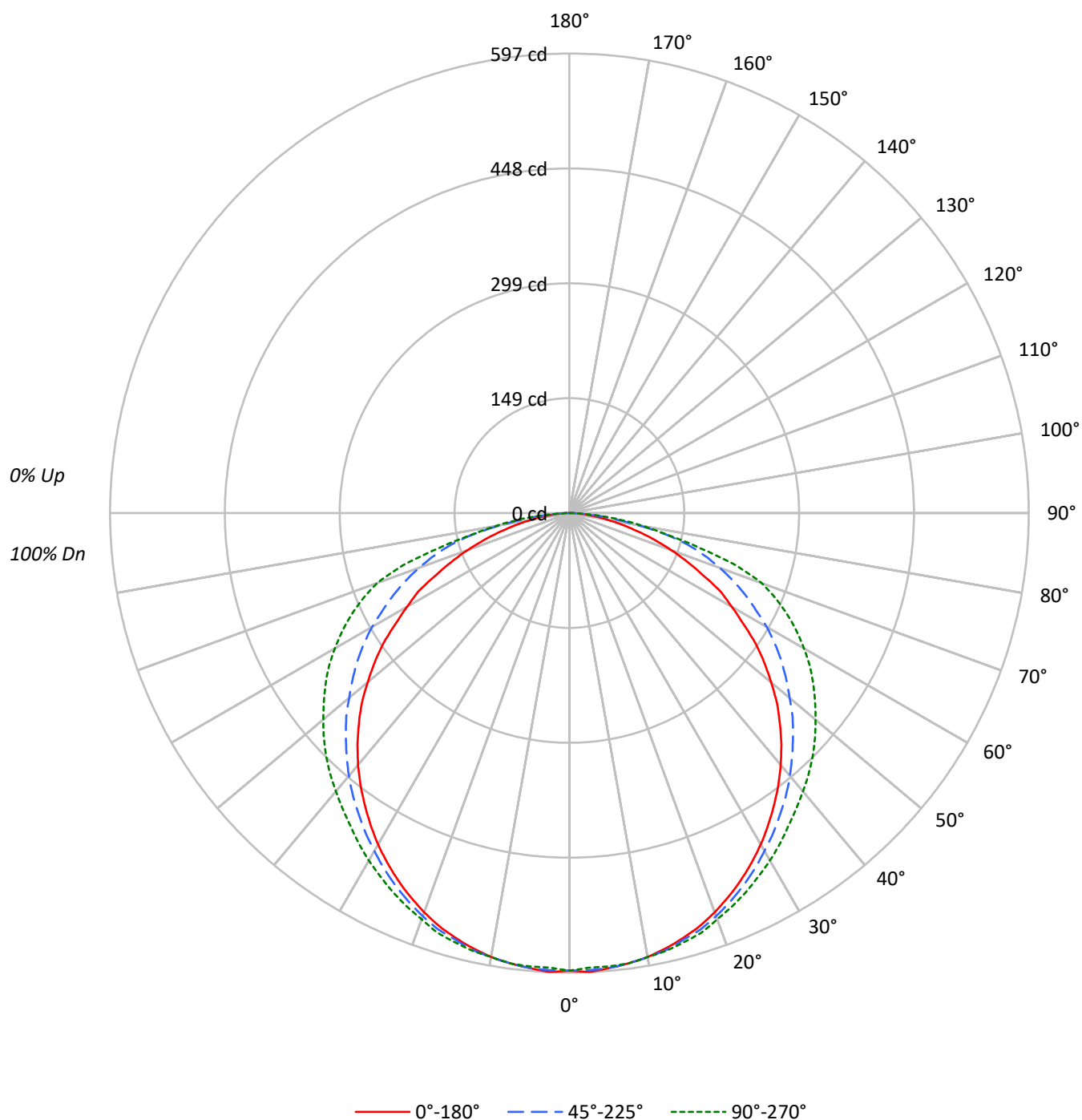
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1600	1600	1600
5°	1603	1603	1597
10°	1600	1600	1600
15°	1592	1598	1607
20°	1580	1596	1609
25°	1564	1587	1613
30°	1545	1576	1620
35°	1522	1569	1630
40°	1501	1566	1658
45°	1472	1564	1701
50°	1432	1564	1748
55°	1384	1579	1815
60°	1312	1594	1894
65°	1224	1607	1990
70°	1109	1633	2090
75°	954	1659	1829
80°	779	1389	1508
85°	642	1013	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.1
10°-20°	162.1	8.9
20°-30°	246.4	13.5
30°-40°	299.8	16.4
40°-50°	319.4	17.5
50°-60°	302.1	16.5
60°-70°	249.0	13.6
70°-80°	153.2	8.4
80°-90°	37.4	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°	464.9	25.5
0°-40°	764.7	41.9
0°-60°	1386.2	75.9
0°-90°	1825.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1825.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	593	593	593	592	591	56
15°	572	573	574	576	577	161
25°	527	529	534	540	543	243
35°	463	468	478	490	496	290
45°	387	393	411	434	447	298
55°	295	306	337	369	387	263
65°	192	211	252	293	312	191
75°	92	117	160	174	176	98
85°	21	27	33	35	36	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.5	594.5	594.5	594.5	594.5
2.5°	596.7	595.6	594.5	592.3	591.2
5°	593.4	593.4	593.4	592.3	591.2
7.5°	590.1	590.1	590.1	590.1	590.1
10°	585.7	585.7	585.7	585.7	585.7
12.5°	579.2	580.3	581.4	581.4	582.5
15°	571.5	572.6	573.7	575.9	577.0
17.5°	562.8	563.9	567.2	569.4	571.5
20°	551.9	553.0	557.3	559.5	561.7
22.5°	539.9	542.0	546.4	550.8	553.0
25°	526.7	528.9	534.4	539.9	543.1
27.5°	512.5	514.7	521.3	528.9	532.2
30°	497.2	499.4	507.1	515.8	521.3
32.5°	480.8	484.1	492.9	503.8	509.3
35°	463.4	467.7	477.6	489.6	496.1
37.5°	445.9	450.2	462.3	476.5	484.1
40°	427.3	432.8	445.9	462.3	472.1
42.5°	407.6	414.2	428.4	448.1	460.1
45°	386.9	393.4	410.9	433.8	447.0
47.5°	366.1	373.7	393.4	418.5	432.8
50°	342.1	350.8	373.7	403.2	417.5
52.5°	319.1	330.0	355.2	386.9	402.2
55°	295.1	306.0	336.6	369.4	386.9
57.5°	267.7	280.9	316.9	351.9	370.5
60°	243.7	256.8	296.2	333.3	351.9
62.5°	221.8	233.9	273.2	313.6	333.3
65°	192.3	210.9	252.4	292.9	312.5
67.5°	166.1	186.9	230.6	268.8	290.7
70°	141.0	162.8	207.6	244.8	265.6
72.5°	115.8	139.9	184.7	217.5	228.4
75°	91.8	116.9	159.6	173.8	175.9
77.5°	69.9	95.1	129.0	127.9	130.0
80°	50.3	72.1	89.6	92.9	97.3
82.5°	33.9	50.3	57.9	63.4	67.8
85°	20.8	27.3	32.8	35.0	36.1
87.5°	9.8	10.9	10.9	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)