

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: P345112

Luminaire Tested: **22CZ-20-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345112
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-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1879.6 lumens
Efficiency: N/A
Efficacy: 114.6 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

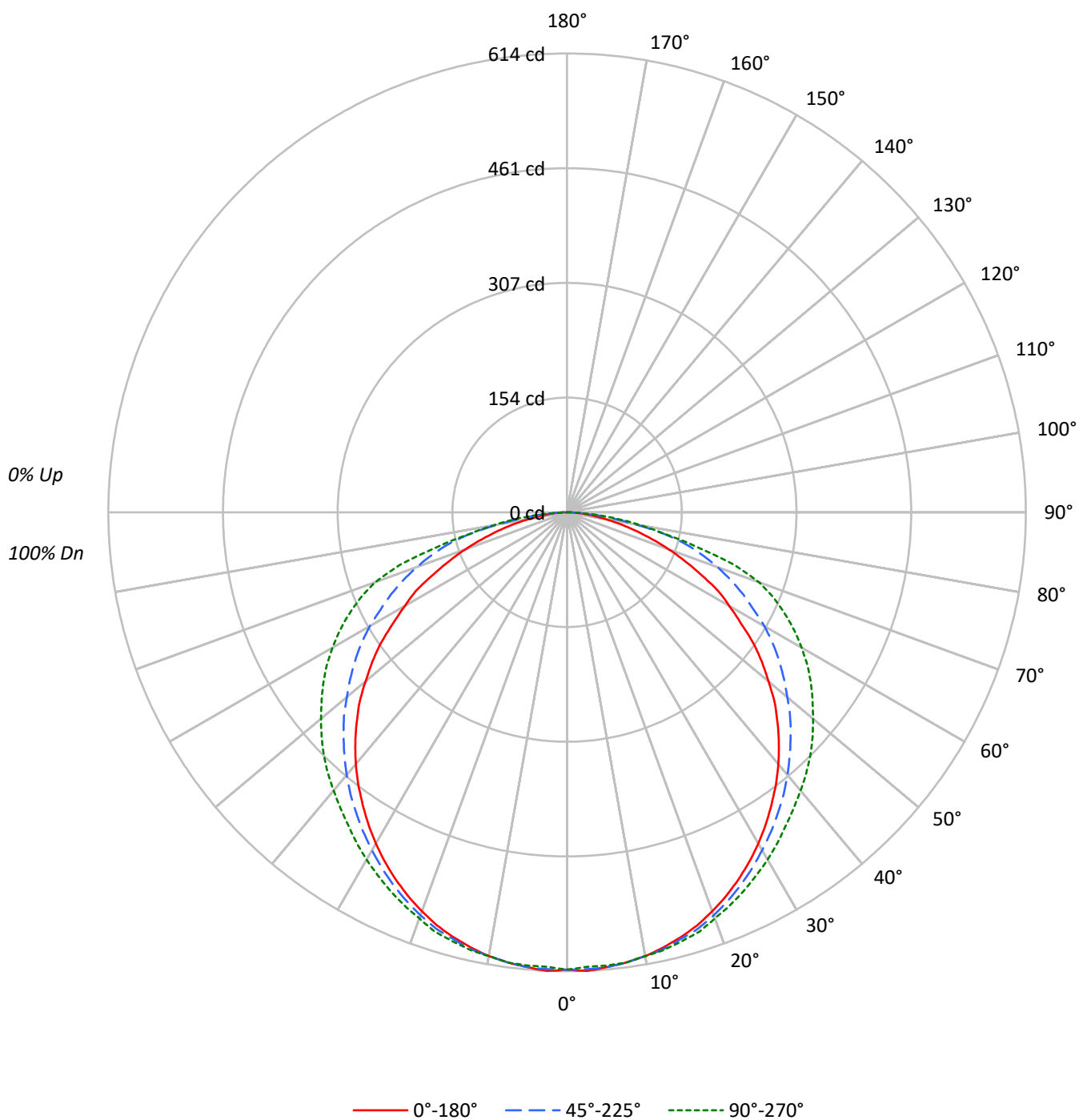
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1647	1647	1647
5°	1650	1650	1644
10°	1648	1648	1648
15°	1639	1646	1655
20°	1627	1643	1656
25°	1610	1634	1660
30°	1591	1622	1668
35°	1567	1615	1678
40°	1545	1612	1707
45°	1516	1610	1751
50°	1474	1611	1799
55°	1425	1626	1869
60°	1350	1641	1950
65°	1261	1655	2049
70°	1142	1682	2151
75°	983	1708	1883
80°	803	1430	1551
85°	661	1044	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.1
10°-20°	166.9	8.9
20°-30°	253.7	13.5
30°-40°	308.7	16.4
40°-50°	328.8	17.5
50°-60°	311.0	16.5
60°-70°	256.4	13.6
70°-80°	157.7	8.4
80°-90°	38.5	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°	478.6	25.5
0°-40°	787.2	41.9
0°-60°	1427.1	75.9
0°-90°	1879.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1879.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	611	611	611	610	609	58
15°	588	590	591	593	594	166
25°	542	544	550	556	559	250
35°	477	482	492	504	511	299
45°	398	405	423	447	460	307
55°	304	315	346	380	398	270
65°	198	217	260	302	322	197
75°	94	120	164	179	181	101
85°	21	28	34	36	37	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.0	612.0	612.0	612.0	612.0
2.5°	614.3	613.2	612.0	609.8	608.7
5°	610.9	610.9	610.9	609.8	608.7
7.5°	607.5	607.5	607.5	607.5	607.5
10°	603.0	603.0	603.0	603.0	603.0
12.5°	596.3	597.4	598.5	598.5	599.7
15°	588.4	589.5	590.7	592.9	594.0
17.5°	579.4	580.5	583.9	586.2	588.4
20°	568.2	569.3	573.8	576.0	578.3
22.5°	555.8	558.0	562.5	567.0	569.3
25°	542.3	544.5	550.2	555.8	559.2
27.5°	527.7	529.9	536.7	544.5	547.9
30°	511.9	514.2	522.0	531.0	536.7
32.5°	495.0	498.4	507.4	518.7	524.3
35°	477.0	481.5	491.7	504.0	510.8
37.5°	459.0	463.5	475.9	490.5	498.4
40°	439.9	445.5	459.0	475.9	486.0
42.5°	419.6	426.4	441.0	461.3	473.7
45°	398.3	405.0	423.0	446.7	460.2
47.5°	376.9	384.8	405.0	430.9	445.5
50°	352.1	361.1	384.8	415.1	429.8
52.5°	328.5	339.8	365.6	398.3	414.0
55°	303.8	315.0	346.5	380.3	398.3
57.5°	275.6	289.1	326.3	362.3	381.4
60°	250.9	264.4	304.9	343.1	362.3
62.5°	228.4	240.8	281.3	322.9	343.1
65°	198.0	217.1	259.9	301.5	321.8
67.5°	171.0	192.4	237.4	276.8	299.3
70°	145.1	167.6	213.8	252.0	273.4
72.5°	119.3	144.0	190.1	223.9	235.1
75°	94.5	120.4	164.3	178.9	181.1
77.5°	72.0	97.9	132.8	131.6	133.9
80°	51.8	74.3	92.3	95.6	100.1
82.5°	34.9	51.8	59.6	65.3	69.8
85°	21.4	28.1	33.8	36.0	37.1
87.5°	10.1	11.3	11.3	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)