

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: P345111

Luminaire Tested: **22CZ-20-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345111
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.5 lumens
Efficiency: N/A
Efficacy: 112.3 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

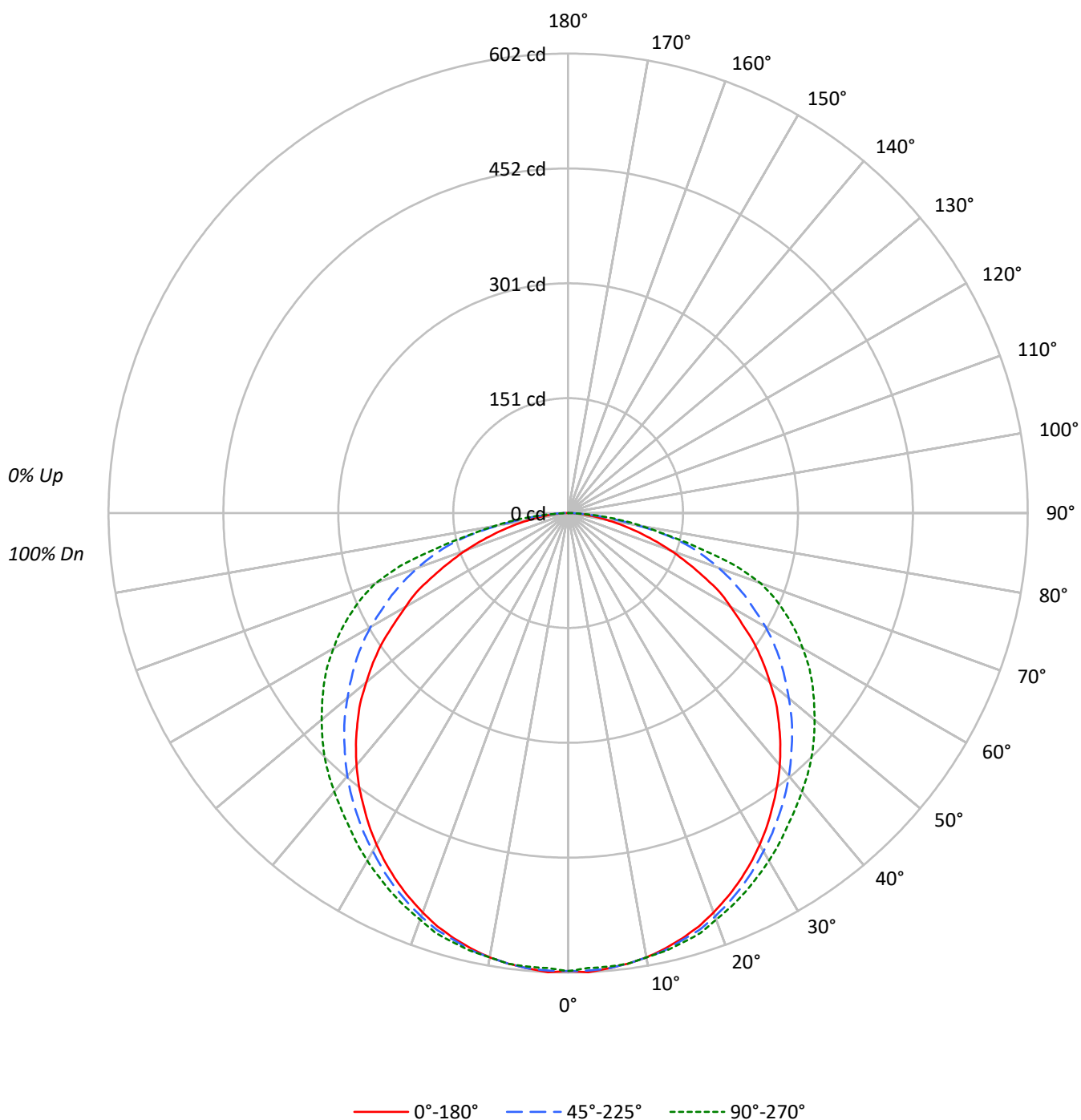
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1615	1615	1615
5°	1618	1618	1612
10°	1615	1615	1615
15°	1607	1613	1622
20°	1595	1611	1623
25°	1578	1601	1627
30°	1559	1590	1635
35°	1536	1583	1645
40°	1515	1581	1674
45°	1486	1578	1717
50°	1445	1579	1764
55°	1397	1594	1832
60°	1323	1609	1911
65°	1236	1622	2008
70°	1120	1648	2109
75°	963	1674	1847
80°	786	1401	1522
85°	648	1022	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.1
10°-20°	163.6	8.9
20°-30°	248.7	13.5
30°-40°	302.6	16.4
40°-50°	322.3	17.5
50°-60°	304.9	16.5
60°-70°	251.3	13.6
70°-80°	154.5	8.4
80°-90°	37.7	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°	469.1	25.5
0°-40°	771.7	41.9
0°-60°	1398.9	75.9
0°-90°	1842.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	599	599	599	598	597	57
15°	577	578	579	581	582	163
25°	532	534	539	545	548	245
35°	468	472	482	494	501	293
45°	390	397	415	438	451	301
55°	298	309	340	373	390	265
65°	194	213	255	296	315	193
75°	93	118	161	175	178	99
85°	21	28	33	35	36	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	600.0	600.0	600.0	600.0	600.0
2.5°	602.2	601.1	600.0	597.8	596.6
5°	598.9	598.9	598.9	597.8	596.6
7.5°	595.5	595.5	595.5	595.5	595.5
10°	591.1	591.1	591.1	591.1	591.1
12.5°	584.5	585.6	586.7	586.7	587.8
15°	576.8	577.9	579.0	581.2	582.3
17.5°	568.0	569.1	572.4	574.6	576.8
20°	556.9	558.0	562.5	564.7	566.9
22.5°	544.8	547.0	551.4	555.8	558.0
25°	531.6	533.8	539.3	544.8	548.1
27.5°	517.2	519.4	526.1	533.8	537.1
30°	501.8	504.0	511.7	520.6	526.1
32.5°	485.3	488.6	497.4	508.4	513.9
35°	467.6	472.0	482.0	494.1	500.7
37.5°	450.0	454.4	466.5	480.8	488.6
40°	431.2	436.7	450.0	466.5	476.4
42.5°	411.4	418.0	432.3	452.2	464.3
45°	390.4	397.0	414.7	437.8	451.1
47.5°	369.5	377.2	397.0	422.4	436.7
50°	345.2	354.0	377.2	407.0	421.3
52.5°	322.0	333.1	358.4	390.4	405.9
55°	297.8	308.8	339.7	372.8	390.4
57.5°	270.2	283.4	319.8	355.1	373.9
60°	245.9	259.2	298.9	336.4	355.1
62.5°	223.9	236.0	275.7	316.5	336.4
65°	194.1	212.9	254.8	295.6	315.4
67.5°	167.6	188.6	232.7	271.3	293.4
70°	142.3	164.3	209.5	247.0	268.0
72.5°	116.9	141.2	186.4	219.5	230.5
75°	92.6	118.0	161.0	175.4	177.6
77.5°	70.6	95.9	130.1	129.0	131.2
80°	50.7	72.8	90.4	93.7	98.2
82.5°	34.2	50.7	58.5	64.0	68.4
85°	21.0	27.6	33.1	35.3	36.4
87.5°	9.9	11.0	11.0	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)