

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: P345114

Luminaire Tested: **22CZ-24-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345114
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-24-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2161.3 lumens
Efficiency: N/A
Efficacy: 110.3 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

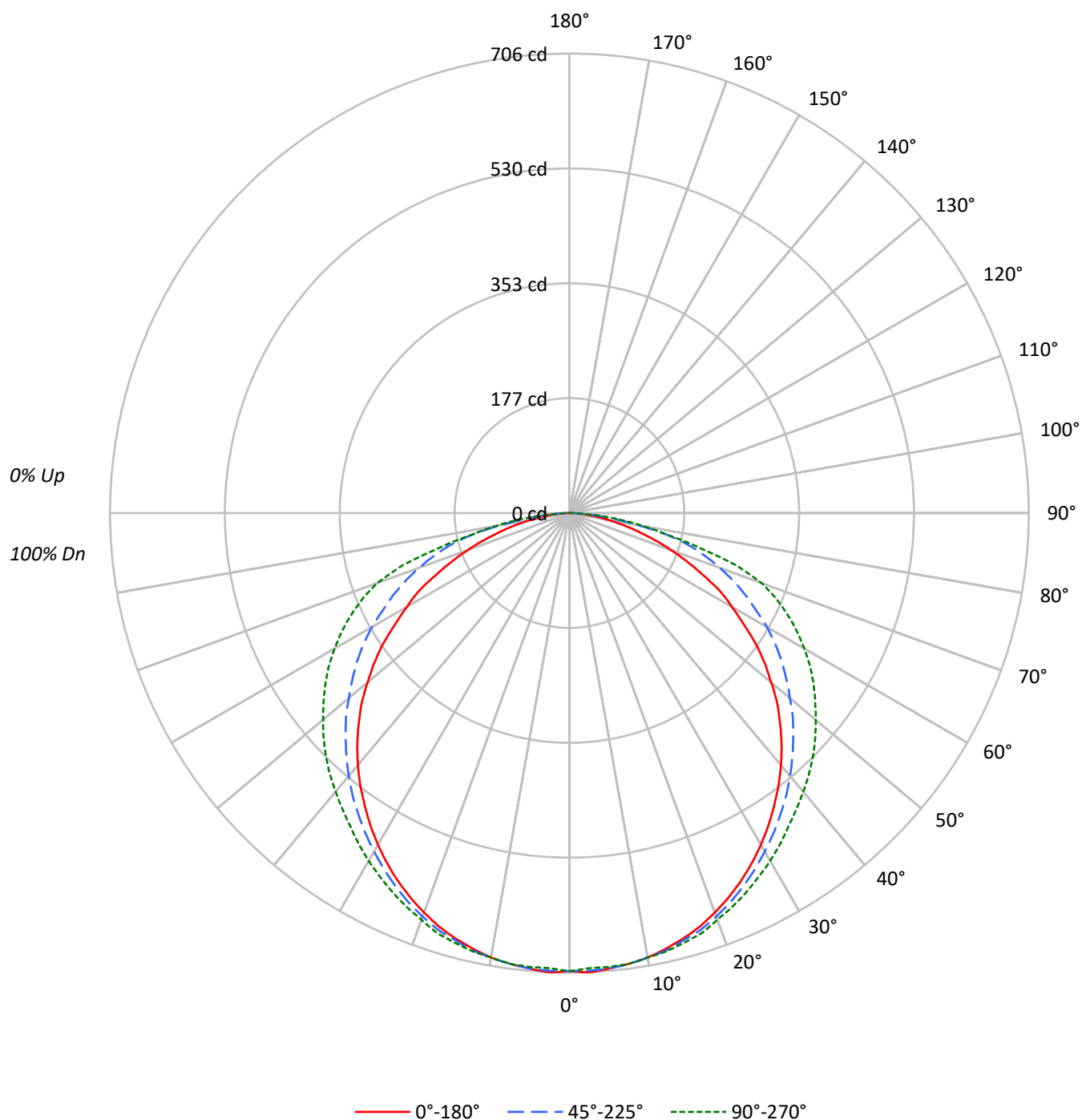
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1894	1894	1894
5°	1898	1898	1891
10°	1895	1895	1895
15°	1885	1892	1903
20°	1871	1889	1904
25°	1852	1878	1909
30°	1829	1865	1917
35°	1802	1857	1929
40°	1777	1854	1963
45°	1743	1851	2014
50°	1695	1852	2069
55°	1639	1870	2149
60°	1553	1887	2242
65°	1450	1903	2356
70°	1313	1934	2474
75°	1130	1964	2166
80°	922	1644	1784
85°	760	1198	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.1
10°-20°	191.9	8.9
20°-30°	291.7	13.5
30°-40°	354.9	16.4
40°-50°	378.1	17.5
50°-60°	357.7	16.5
60°-70°	294.8	13.6
70°-80°	181.3	8.4
80°-90°	44.2	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°	550.3	25.5
0°-40°	905.3	41.9
0°-60°	1641.0	75.9
0°-90°	2161.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	702	702	702	701	700	67
15°	677	678	679	682	683	191
25°	624	626	633	639	643	287
35°	548	554	565	580	587	343
45°	458	466	486	514	529	353
55°	349	362	398	437	458	311
65°	228	250	299	347	370	226
75°	109	138	189	206	208	116
85°	25	32	39	41	43	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.8	703.8	703.8	703.8	703.8
2.5°	706.4	705.1	703.8	701.2	699.9
5°	702.5	702.5	702.5	701.2	699.9
7.5°	698.6	698.6	698.6	698.6	698.6
10°	693.4	693.4	693.4	693.4	693.4
12.5°	685.7	687.0	688.3	688.3	689.6
15°	676.6	677.9	679.2	681.8	683.1
17.5°	666.3	667.6	671.4	674.0	676.6
20°	653.3	654.6	659.8	662.4	665.0
22.5°	639.1	641.7	646.9	652.0	654.6
25°	623.6	626.2	632.6	639.1	643.0
27.5°	606.8	609.3	617.1	626.2	630.0
30°	588.6	591.2	600.3	610.6	617.1
32.5°	569.2	573.1	583.5	596.4	602.9
35°	548.5	553.7	565.4	579.6	587.3
37.5°	527.8	533.0	547.2	564.1	573.1
40°	505.8	512.3	527.8	547.2	558.9
42.5°	482.6	490.3	507.1	530.4	544.7
45°	458.0	465.7	486.4	513.6	529.1
47.5°	433.4	442.5	465.7	495.5	512.3
50°	404.9	415.3	442.5	477.4	494.2
52.5°	377.8	390.7	420.5	458.0	476.1
55°	349.3	362.2	398.5	437.3	458.0
57.5°	317.0	332.5	375.2	416.6	438.6
60°	288.5	304.0	350.6	394.6	416.6
62.5°	262.6	276.9	323.4	371.3	394.6
65°	227.7	249.7	298.8	346.7	370.0
67.5°	196.6	221.2	273.0	318.3	344.1
70°	166.9	192.8	245.8	289.8	314.4
72.5°	137.1	165.6	218.6	257.5	270.4
75°	108.7	138.4	188.9	205.7	208.3
77.5°	82.8	112.6	152.7	151.4	154.0
80°	59.5	85.4	106.1	110.0	115.1
82.5°	40.1	59.5	68.6	75.0	80.2
85°	24.6	32.3	38.8	41.4	42.7
87.5°	11.6	12.9	12.9	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)