

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: P345115

Luminaire Tested: **22CZ-24-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345115
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2181.7 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

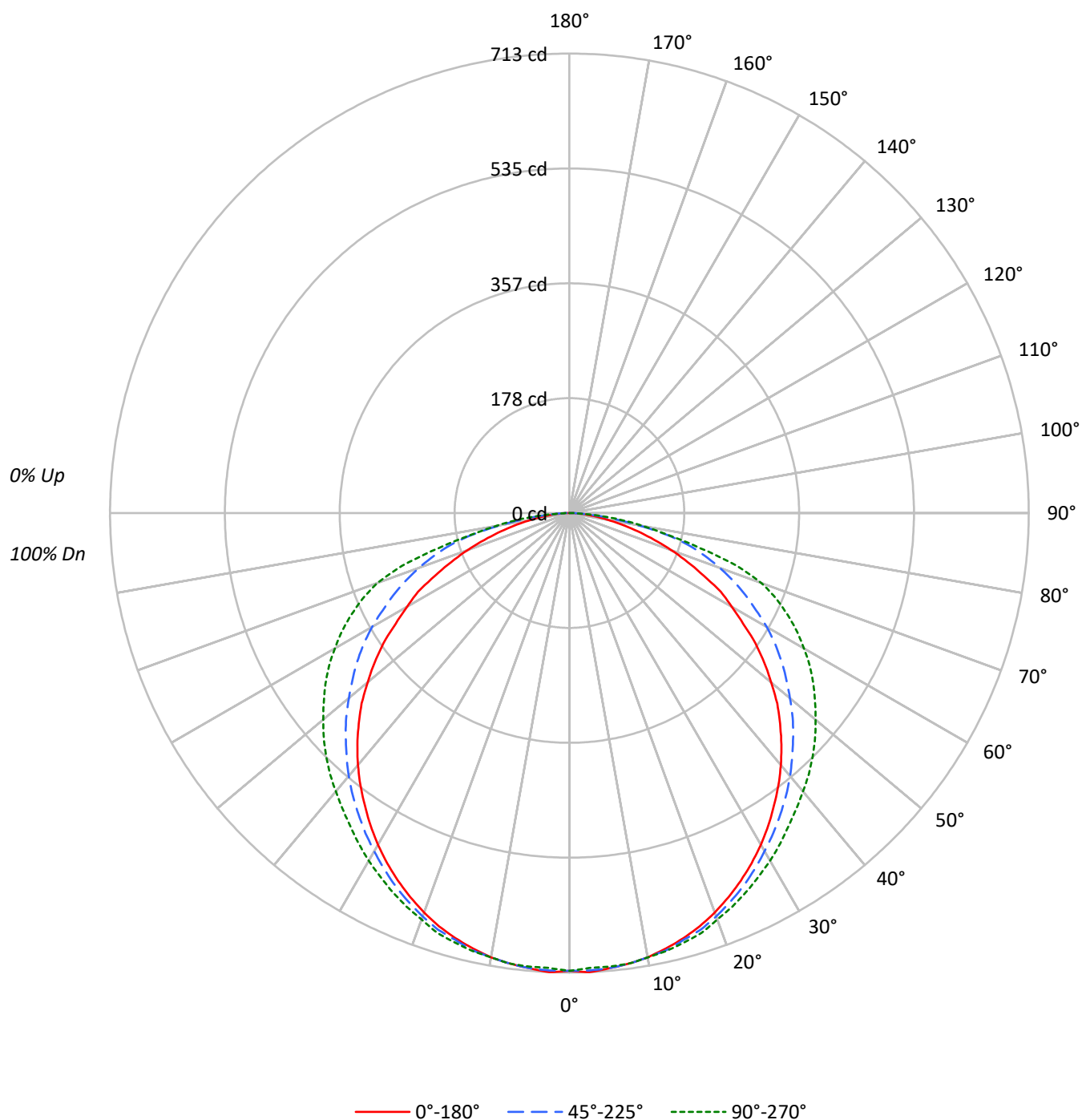
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1912	1912	1912
5°	1915	1915	1908
10°	1913	1913	1913
15°	1903	1910	1921
20°	1889	1907	1922
25°	1869	1896	1927
30°	1846	1883	1936
35°	1819	1875	1948
40°	1794	1872	1982
45°	1759	1869	2033
50°	1711	1870	2088
55°	1654	1887	2169
60°	1567	1905	2263
65°	1463	1921	2378
70°	1326	1952	2496
75°	1141	1983	2185
80°	931	1660	1801
85°	766	1210	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.1
10°-20°	193.7	8.9
20°-30°	294.4	13.5
30°-40°	358.3	16.4
40°-50°	381.6	17.5
50°-60°	361.0	16.5
60°-70°	297.5	13.6
70°-80°	183.0	8.4
80°-90°	44.7	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°	555.5	25.5
0°-40°	913.8	41.9
0°-60°	1656.4	75.9
0°-90°	2181.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	709	709	709	708	706	67
15°	683	684	686	688	690	193
25°	629	632	639	645	649	290
35°	554	559	571	585	593	347
45°	462	470	491	518	534	356
55°	353	366	402	441	462	314
65°	230	252	302	350	374	228
75°	110	140	191	208	210	118
85°	25	33	39	42	43	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.4	710.4	710.4	710.4	710.4
2.5°	713.0	711.7	710.4	707.8	706.5
5°	709.1	709.1	709.1	707.8	706.5
7.5°	705.2	705.2	705.2	705.2	705.2
10°	700.0	700.0	700.0	700.0	700.0
12.5°	692.1	693.4	694.7	694.7	696.0
15°	683.0	684.3	685.6	688.2	689.5
17.5°	672.5	673.8	677.8	680.4	683.0
20°	659.5	660.8	666.0	668.6	671.2
22.5°	645.1	647.7	652.9	658.2	660.8
25°	629.4	632.0	638.6	645.1	649.0
27.5°	612.5	615.1	622.9	632.0	636.0
30°	594.2	596.8	605.9	616.4	622.9
32.5°	574.6	578.5	589.0	602.0	608.5
35°	553.7	558.9	570.7	585.0	592.9
37.5°	532.8	538.0	552.4	569.4	578.5
40°	510.6	517.1	532.8	552.4	564.1
42.5°	487.1	494.9	511.9	535.4	549.8
45°	462.3	470.1	491.0	518.4	534.1
47.5°	437.5	446.6	470.1	500.2	517.1
50°	408.7	419.2	446.6	481.9	498.8
52.5°	381.3	394.4	424.4	462.3	480.6
55°	352.6	365.6	402.2	441.4	462.3
57.5°	319.9	335.6	378.7	420.5	442.7
60°	291.2	306.9	353.9	398.3	420.5
62.5°	265.1	279.5	326.5	374.8	398.3
65°	229.8	252.0	301.7	350.0	373.5
67.5°	198.5	223.3	275.5	321.2	347.4
70°	168.5	194.6	248.1	292.5	317.3
72.5°	138.4	167.2	220.7	259.9	272.9
75°	109.7	139.7	190.7	207.6	210.2
77.5°	83.6	113.6	154.1	152.8	155.4
80°	60.1	86.2	107.1	111.0	116.2
82.5°	40.5	60.1	69.2	75.7	81.0
85°	24.8	32.6	39.2	41.8	43.1
87.5°	11.8	13.1	13.1	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)