

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: P345116

Luminaire Tested: **22CZ-24-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345116
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-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.9 lumens
Efficiency: N/A
Efficacy: 113.5 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

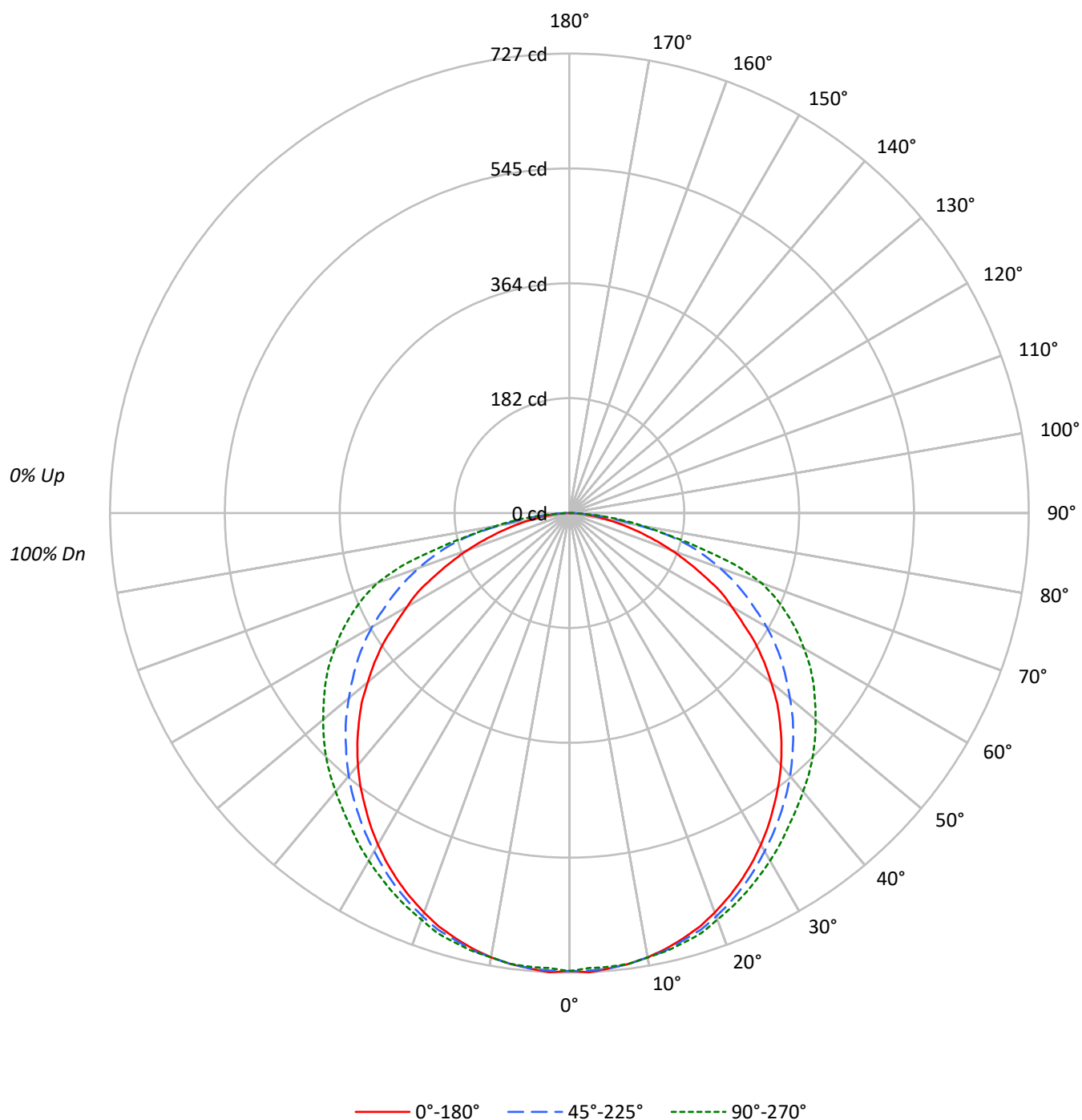
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345116

CATALOG NUMBER: 22CZ-24-L840-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345116

CATALOG NUMBER: 22CZ-24-L840-HRP-UNV-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1950	1950	1950
5°	1954	1954	1946
10°	1950	1950	1950
15°	1940	1948	1959
20°	1926	1945	1960
25°	1906	1934	1965
30°	1883	1920	1974
35°	1855	1912	1986
40°	1829	1909	2021
45°	1794	1906	2073
50°	1745	1907	2130
55°	1687	1924	2212
60°	1598	1942	2308
65°	1493	1959	2425
70°	1352	1991	2546
75°	1163	2021	2229
80°	950	1692	1836
85°	781	1235	1355



TEST NUMBER: P345116

CATALOG NUMBER: 22CZ-24-L840-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.1
10°-20°	197.5	8.9
20°-30°	300.3	13.5
30°-40°	365.4	16.4
40°-50°	389.2	17.5
50°-60°	368.2	16.5
60°-70°	303.4	13.6
70°-80°	186.6	8.4
80°-90°	45.6	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°	566.5	25.5
0°-40°	931.9	41.9
0°-60°	1689.3	75.9
0°-90°	2224.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	723	723	722	720	69
15°	696	698	699	702	703	197
25°	642	645	651	658	662	296
35°	565	570	582	597	605	353
45°	472	479	501	529	545	364
55°	360	373	410	450	472	320
65°	234	257	308	357	381	233
75°	112	142	194	212	214	120
85°	25	33	40	43	44	30
90°	0	0	0	0	0	



TEST NUMBER: P345116

CATALOG NUMBER: 22CZ-24-L840-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.5	724.5	724.5	724.5	724.5
2.5°	727.2	725.8	724.5	721.8	720.5
5°	723.2	723.2	723.2	721.8	720.5
7.5°	719.2	719.2	719.2	719.2	719.2
10°	713.8	713.8	713.8	713.8	713.8
12.5°	705.8	707.2	708.5	708.5	709.8
15°	696.5	697.9	699.2	701.9	703.2
17.5°	685.9	687.2	691.2	693.9	696.5
20°	672.6	673.9	679.2	681.9	684.5
22.5°	657.9	660.6	665.9	671.2	673.9
25°	641.9	644.6	651.2	657.9	661.9
27.5°	624.6	627.3	635.3	644.6	648.6
30°	606.0	608.6	617.9	628.6	635.3
32.5°	586.0	590.0	600.6	614.0	620.6
35°	564.7	570.0	582.0	596.6	604.6
37.5°	543.4	548.7	563.3	580.7	590.0
40°	520.7	527.4	543.4	563.3	575.3
42.5°	496.8	504.7	522.1	546.0	560.7
45°	471.5	479.4	500.8	528.7	544.7
47.5°	446.1	455.5	479.4	510.1	527.4
50°	416.8	427.5	455.5	491.4	508.7
52.5°	388.9	402.2	432.8	471.5	490.1
55°	359.6	372.9	410.2	450.1	471.5
57.5°	326.3	342.3	386.2	428.8	451.5
60°	297.0	313.0	360.9	406.2	428.8
62.5°	270.4	285.0	332.9	382.2	406.2
65°	234.4	257.0	307.6	356.9	380.9
67.5°	202.4	227.7	281.0	327.6	354.3
70°	171.8	198.4	253.0	298.3	323.6
72.5°	141.2	170.5	225.1	265.0	278.3
75°	111.9	142.5	194.4	211.8	214.4
77.5°	85.2	115.9	157.2	155.8	158.5
80°	61.3	87.9	109.2	113.2	118.5
82.5°	41.3	61.3	70.6	77.2	82.6
85°	25.3	33.3	40.0	42.6	43.9
87.5°	12.0	13.3	13.3	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)