

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: P345157

Luminaire Tested: **14CZ-20-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-20-L850-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1965.9 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

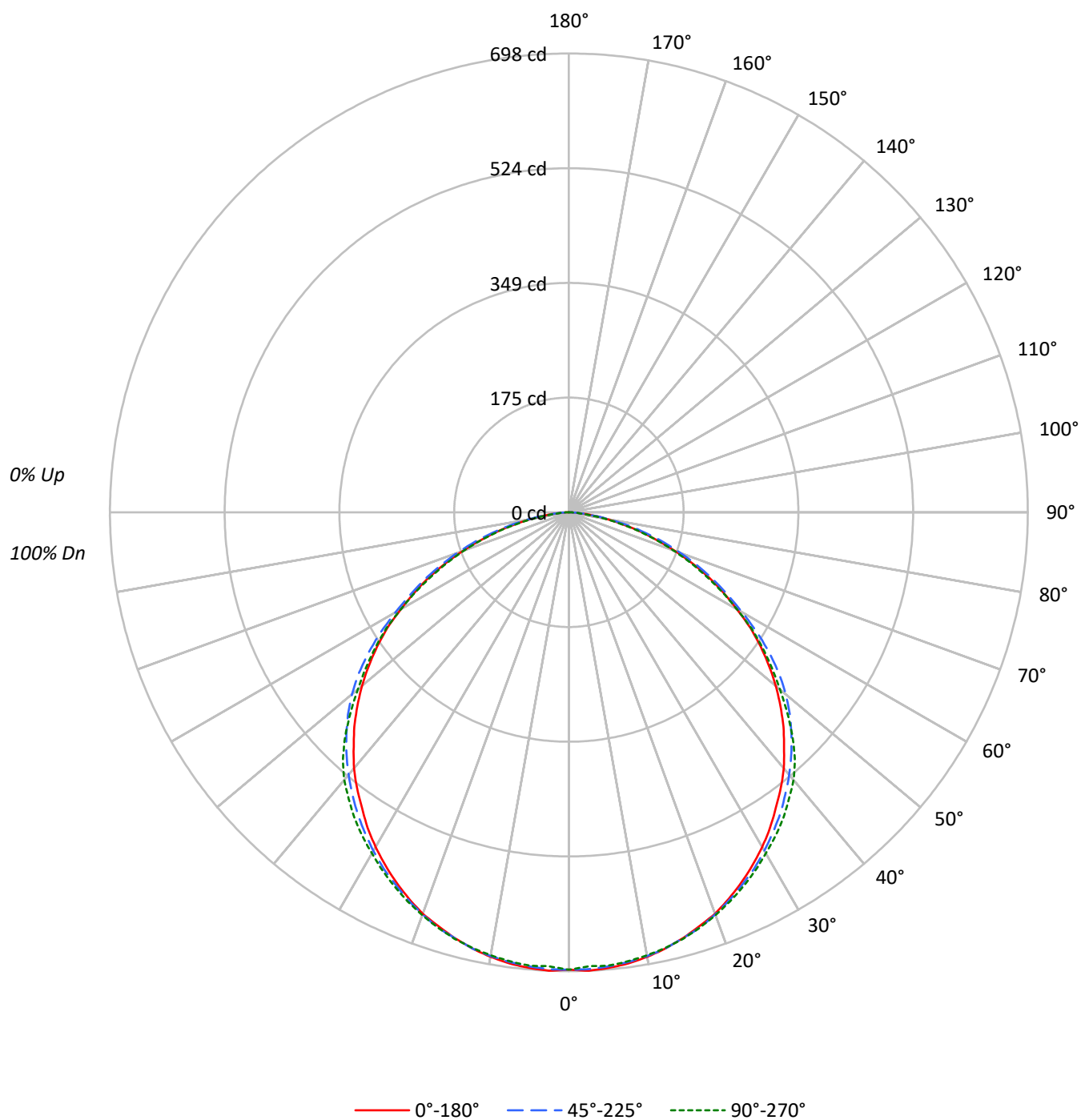
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1879	1873	1870
10°	1876	1873	1870
15°	1868	1868	1871
20°	1861	1864	1867
25°	1844	1854	1864
30°	1826	1848	1862
35°	1803	1840	1867
40°	1787	1831	1867
45°	1756	1822	1831
50°	1721	1802	1754
55°	1670	1745	1686
60°	1588	1637	1588
65°	1498	1542	1469
70°	1345	1418	1328
75°	1158	1253	1134
80°	907	978	818
85°	639	568	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.3
10°-20°	189.1	9.6
20°-30°	287.4	14.6
30°-40°	349.1	17.8
40°-50°	364.6	18.5
50°-60°	324.3	16.5
60°-70°	236.7	12.0
70°-80°	123.4	6.3
80°-90°	25.5	1.3
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°	542.4	27.6
0°-40°	891.4	45.3
0°-60°	1580.3	80.4
0°-90°	1965.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1965.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	696	691	693	692	692	66
15°	670	667	670	672	672	189
25°	621	619	624	626	628	286
35°	549	549	560	564	568	344
45°	462	463	479	482	481	356
55°	356	363	372	362	359	317
65°	235	248	242	235	231	232
75°	111	122	120	112	109	119
85°	21	23	18	16	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.7	695.7	695.7	695.7	695.7
2.5°	698.0	693.4	695.7	694.5	691.1
5°	695.7	691.1	693.4	692.2	692.2
7.5°	692.2	687.6	689.9	688.8	688.8
10°	686.5	681.9	685.3	684.2	684.2
12.5°	679.6	675.0	679.6	678.5	678.5
15°	670.4	667.0	670.4	671.6	671.6
17.5°	660.1	657.8	662.4	662.4	662.4
20°	649.8	646.3	650.9	650.9	652.1
22.5°	636.0	632.5	638.3	637.1	640.6
25°	621.1	618.8	624.5	625.6	627.9
27.5°	605.0	603.8	610.7	611.9	614.2
30°	587.8	585.5	594.7	595.8	599.2
32.5°	569.4	569.4	577.4	579.7	584.3
35°	548.7	548.7	560.2	563.7	568.3
37.5°	529.2	529.2	540.7	546.4	549.9
40°	508.6	508.6	521.2	526.9	531.5
42.5°	484.4	485.6	500.5	506.3	508.6
45°	461.5	462.6	478.7	482.2	481.0
47.5°	436.2	439.7	455.7	453.5	450.0
50°	411.0	414.4	430.5	421.3	419.0
52.5°	383.4	389.2	402.9	390.3	389.2
55°	355.9	362.8	371.9	361.6	359.3
57.5°	327.2	336.4	338.7	331.8	329.5
60°	295.0	307.7	304.2	298.5	295.0
62.5°	265.2	276.7	272.1	266.3	262.9
65°	235.3	248.0	242.2	235.3	230.7
67.5°	203.2	218.1	211.2	203.2	199.7
70°	171.0	183.7	180.2	172.2	168.8
72.5°	140.1	151.5	150.4	142.3	138.9
75°	111.4	121.7	120.5	112.5	109.1
77.5°	83.8	94.1	90.7	83.8	80.4
80°	58.5	67.7	63.1	56.3	52.8
82.5°	37.9	42.5	37.9	32.1	29.8
85°	20.7	23.0	18.4	16.1	16.1
87.5°	6.9	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)