

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: P345163

Luminaire Tested: **14CZ-29-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345163
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-29-L835-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2563.3 lumens
Efficiency: N/A
Efficacy: 104.6 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

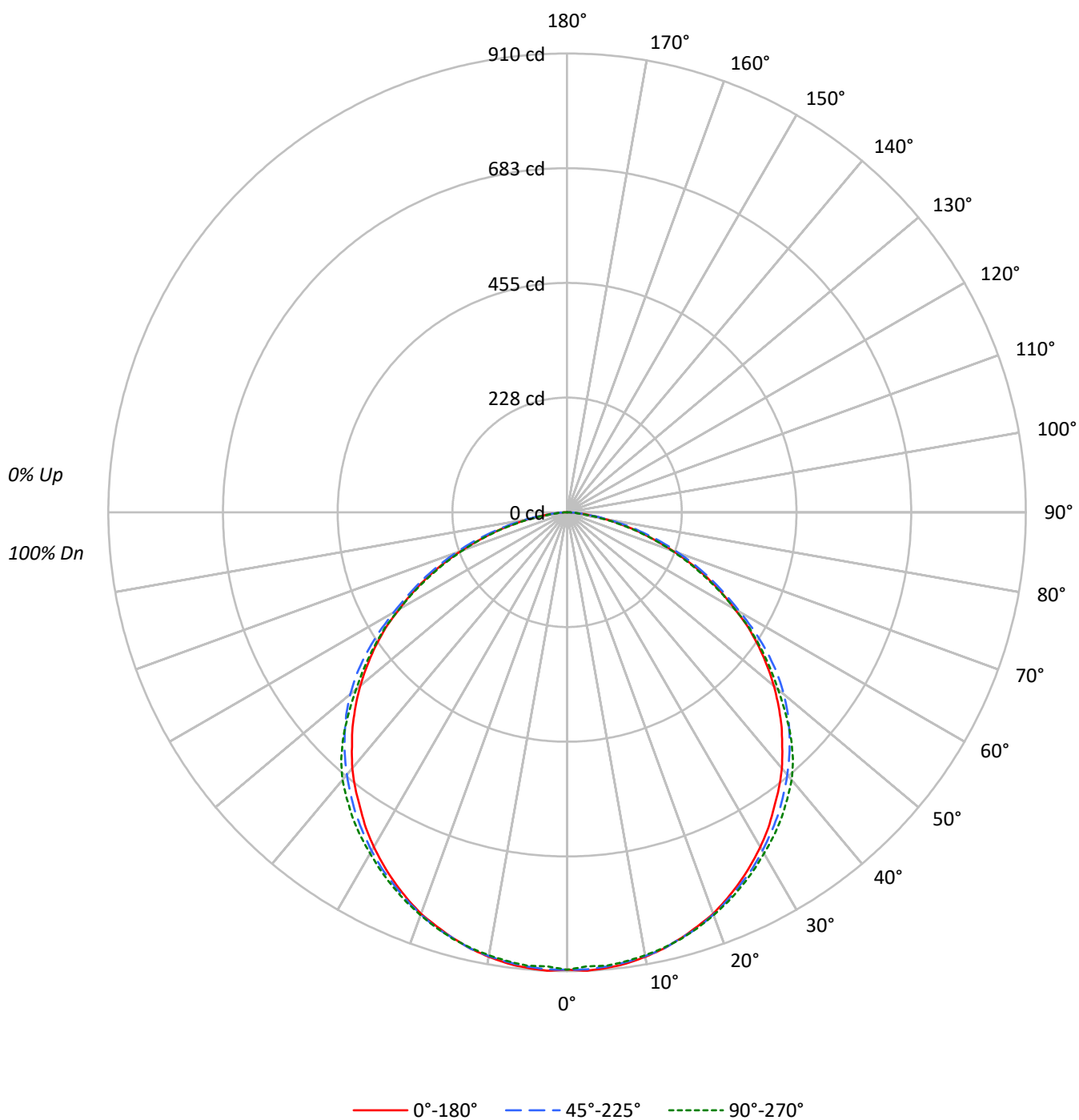
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92		94	91	89		84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2441	2441	2441
5°	2450	2442	2438
10°	2446	2442	2438
15°	2435	2435	2439
20°	2426	2430	2435
25°	2404	2418	2431
30°	2381	2409	2428
35°	2350	2399	2434
40°	2329	2387	2434
45°	2290	2375	2387
50°	2243	2350	2287
55°	2177	2275	2198
60°	2070	2134	2070
65°	1954	2011	1916
70°	1755	1849	1731
75°	1510	1634	1478
80°	1182	1275	1068
85°	831	738	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.3
10°-20°	246.6	9.6
20°-30°	374.7	14.6
30°-40°	455.1	17.8
40°-50°	475.4	18.5
50°-60°	422.8	16.5
60°-70°	308.6	12.0
70°-80°	161.0	6.3
80°-90°	33.2	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°	707.1	27.6
0°-40°	1162.3	45.3
0°-60°	2060.5	80.4
0°-90°	2563.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	907	901	904	903	903	86
15°	874	870	874	876	876	247
25°	810	807	814	816	819	373
35°	716	716	730	735	741	448
45°	602	603	624	629	627	464
55°	464	473	485	472	468	414
65°	307	323	316	307	301	302
75°	145	159	157	147	142	155
85°	27	30	24	21	21	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.1	907.1	907.1	907.1	907.1
2.5°	910.0	904.1	907.1	905.6	901.1
5°	907.1	901.1	904.1	902.6	902.6
7.5°	902.6	896.6	899.6	898.1	898.1
10°	895.1	889.1	893.6	892.1	892.1
12.5°	886.1	880.1	886.1	884.6	884.6
15°	874.1	869.6	874.1	875.6	875.6
17.5°	860.7	857.7	863.6	863.6	863.6
20°	847.2	842.7	848.7	848.7	850.2
22.5°	829.2	824.7	832.2	830.7	835.2
25°	809.8	806.8	814.3	815.7	818.7
27.5°	788.8	787.3	796.3	797.8	800.8
30°	766.4	763.4	775.3	776.8	781.3
32.5°	742.4	742.4	752.9	755.9	761.9
35°	715.5	715.5	730.4	734.9	740.9
37.5°	690.0	690.0	705.0	712.5	717.0
40°	663.1	663.1	679.5	687.0	693.0
42.5°	631.6	633.1	652.6	660.1	663.1
45°	601.7	603.2	624.2	628.7	627.2
47.5°	568.8	573.3	594.2	591.2	586.7
50°	535.8	540.3	561.3	549.3	546.3
52.5°	499.9	507.4	525.4	508.9	507.4
55°	464.0	473.0	485.0	471.5	468.5
57.5°	426.6	438.6	441.6	432.6	429.6
60°	384.7	401.1	396.6	389.2	384.7
62.5°	345.8	360.7	354.7	347.3	342.8
65°	306.8	323.3	315.8	306.8	300.9
67.5°	264.9	284.4	275.4	264.9	260.4
70°	223.0	239.5	235.0	224.5	220.0
72.5°	182.6	197.6	196.1	185.6	181.1
75°	145.2	158.7	157.2	146.7	142.2
77.5°	109.3	122.7	118.2	109.3	104.8
80°	76.3	88.3	82.3	73.3	68.9
82.5°	49.4	55.4	49.4	41.9	38.9
85°	26.9	29.9	23.9	21.0	21.0
87.5°	9.0	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)