

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: P345164

Luminaire Tested: **14CZ-29-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345164
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-L840-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2614.2 lumens
Efficiency: N/A
Efficacy: 106.7 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

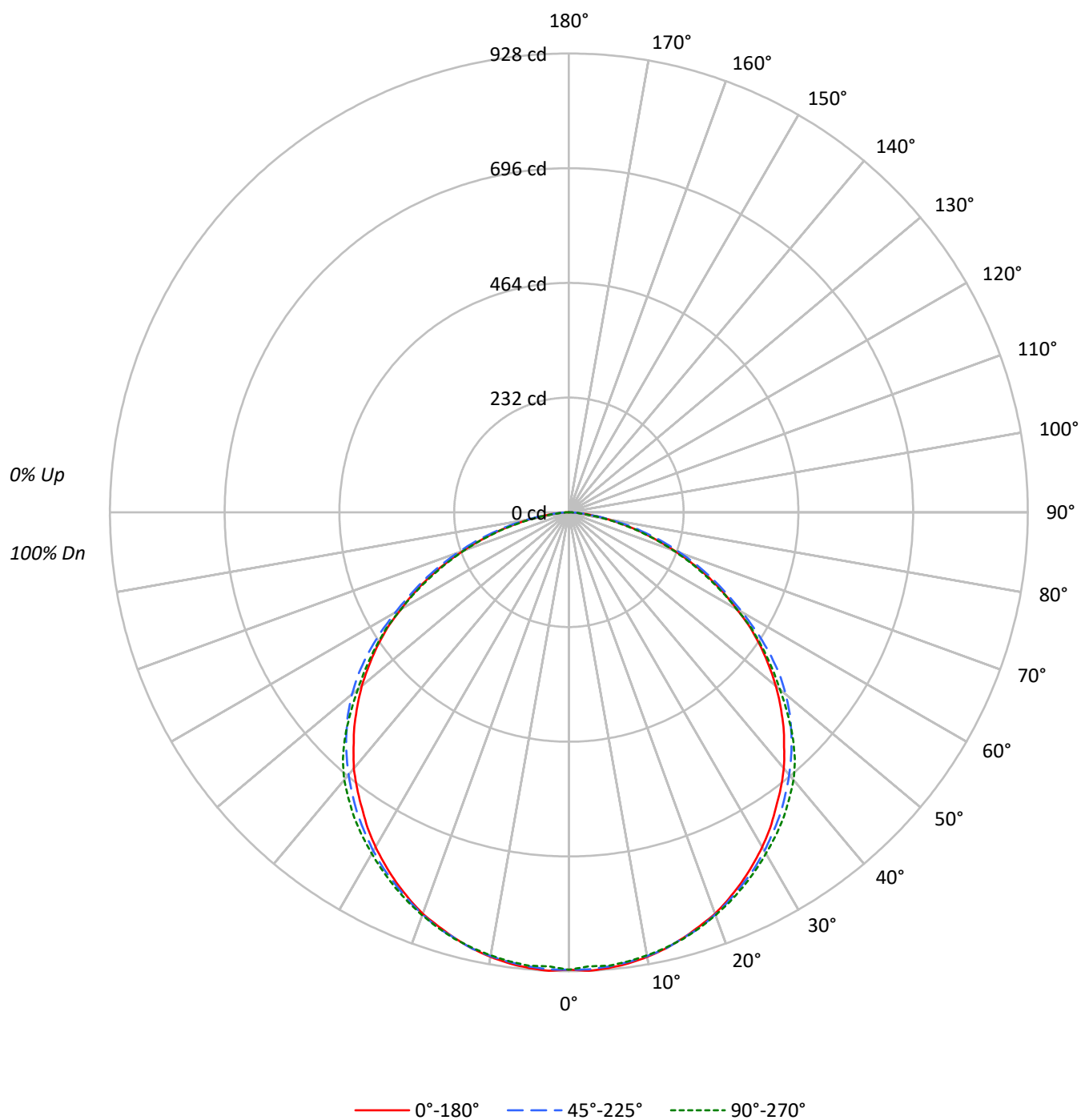
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2489	2489	2489
5°	2499	2491	2487
10°	2494	2490	2486
15°	2484	2484	2488
20°	2474	2479	2483
25°	2452	2466	2479
30°	2429	2457	2476
35°	2397	2447	2482
40°	2376	2434	2483
45°	2336	2423	2434
50°	2288	2397	2333
55°	2220	2320	2242
60°	2111	2177	2111
65°	1992	2051	1954
70°	1790	1886	1766
75°	1540	1667	1508
80°	1207	1302	1088
85°	849	753	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.3
10°-20°	251.5	9.6
20°-30°	382.1	14.6
30°-40°	464.2	17.8
40°-50°	484.9	18.5
50°-60°	431.2	16.5
60°-70°	314.7	12.0
70°-80°	164.2	6.3
80°-90°	33.9	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°	721.2	27.6
0°-40°	1185.4	45.3
0°-60°	2101.4	80.4
0°-90°	2614.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	925	919	922	920	920	88
15°	892	887	892	893	893	252
25°	826	823	830	832	835	381
35°	730	730	745	750	756	457
45°	614	615	637	641	640	473
55°	473	482	495	481	478	422
65°	313	330	322	313	307	308
75°	148	162	160	150	145	158
85°	28	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°	925.1	925.1	925.1	925.1	925.1
2.5°	928.1	922.0	925.1	923.6	919.0
5°	925.1	919.0	922.0	920.5	920.5
7.5°	920.5	914.4	917.4	915.9	915.9
10°	912.9	906.8	911.3	909.8	909.8
12.5°	903.7	897.6	903.7	902.2	902.2
15°	891.5	886.9	891.5	893.0	893.0
17.5°	877.8	874.7	880.8	880.8	880.8
20°	864.0	859.4	865.5	865.5	867.1
22.5°	845.7	841.1	848.8	847.2	851.8
25°	825.9	822.8	830.4	832.0	835.0
27.5°	804.5	803.0	812.1	813.6	816.7
30°	781.6	778.5	790.7	792.3	796.9
32.5°	757.2	757.2	767.8	770.9	777.0
35°	729.7	729.7	745.0	749.5	755.6
37.5°	703.7	703.7	719.0	726.6	731.2
40°	676.3	676.3	693.0	700.7	706.8
42.5°	644.2	645.7	665.6	673.2	676.3
45°	613.7	615.2	636.6	641.1	639.6
47.5°	580.1	584.7	606.0	603.0	598.4
50°	546.5	551.1	572.5	560.2	557.2
52.5°	509.9	517.5	535.8	519.0	517.5
55°	473.2	482.4	494.6	480.9	477.8
57.5°	435.1	447.3	450.3	441.2	438.1
60°	392.3	409.1	404.5	396.9	392.3
62.5°	352.6	367.9	361.8	354.2	349.6
65°	312.9	329.7	322.1	312.9	306.8
67.5°	270.2	290.0	280.9	270.2	265.6
70°	227.5	244.2	239.7	229.0	224.4
72.5°	186.2	201.5	200.0	189.3	184.7
75°	148.1	161.8	160.3	149.6	145.0
77.5°	111.4	125.2	120.6	111.4	106.9
80°	77.9	90.1	84.0	74.8	70.2
82.5°	50.4	56.5	50.4	42.7	39.7
85°	27.5	30.5	24.4	21.4	21.4
87.5°	9.2	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)