

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: P345165

Luminaire Tested: **14CZ-29-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345165
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-L850-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2828.5 lumens
Efficiency: N/A
Efficacy: 115.5 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

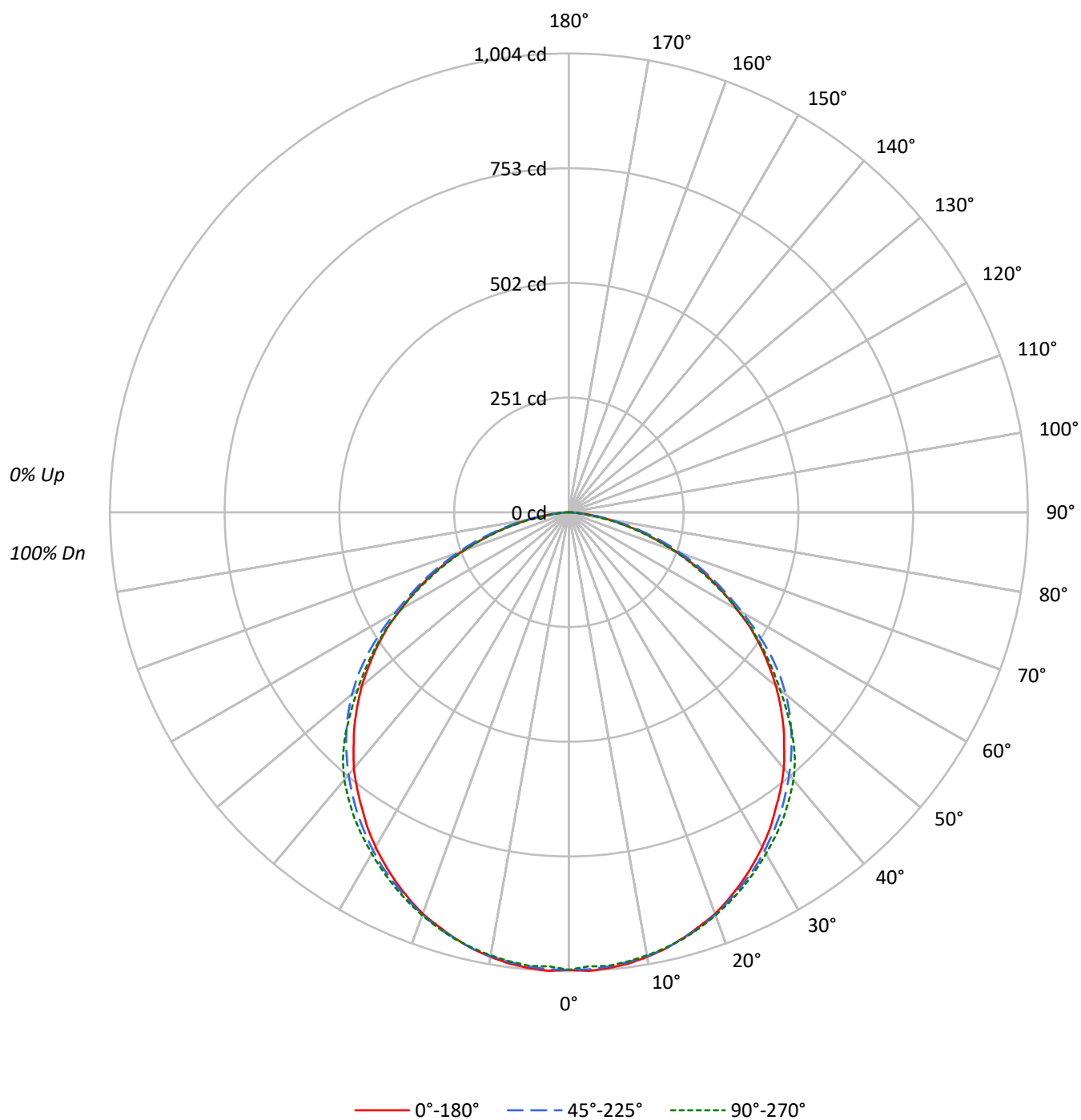
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2693	2693	2693
5°	2704	2695	2690
10°	2699	2695	2690
15°	2687	2687	2692
20°	2677	2682	2687
25°	2653	2668	2683
30°	2628	2659	2679
35°	2594	2648	2686
40°	2570	2634	2686
45°	2527	2621	2634
50°	2475	2593	2524
55°	2402	2511	2426
60°	2285	2356	2285
65°	2156	2219	2114
70°	1936	2040	1910
75°	1666	1803	1631
80°	1305	1407	1178
85°	917	815	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.3
10°-20°	272.1	9.6
20°-30°	413.5	14.6
30°-40°	502.2	17.8
40°-50°	524.6	18.5
50°-60°	466.5	16.5
60°-70°	340.5	12.0
70°-80°	177.6	6.3
80°-90°	36.7	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°	780.3	27.6
0°-40°	1282.6	45.3
0°-60°	2273.7	80.4
0°-90°	2828.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2828.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1001	994	998	996	996	95
15°	965	960	965	966	966	272
25°	894	890	898	900	904	412
35°	790	790	806	811	818	495
45°	664	666	689	694	692	512
55°	512	522	535	520	517	457
65°	339	357	348	339	332	333
75°	160	175	173	162	157	171
85°	30	33	26	23	23	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.9	1000.9	1000.9	1000.9	1000.9
2.5°	1004.2	997.6	1000.9	999.3	994.3
5°	1000.9	994.3	997.6	996.0	996.0
7.5°	996.0	989.4	992.7	991.0	991.0
10°	987.7	981.1	986.1	984.4	984.4
12.5°	977.8	971.2	977.8	976.2	976.2
15°	964.6	959.6	964.6	966.2	966.2
17.5°	949.7	946.4	953.0	953.0	953.0
20°	934.9	929.9	936.5	936.5	938.2
22.5°	915.0	910.1	918.3	916.7	921.6
25°	893.6	890.3	898.5	900.2	903.5
27.5°	870.4	868.8	878.7	880.4	883.7
30°	845.7	842.4	855.6	857.2	862.2
32.5°	819.2	819.2	830.8	834.1	840.7
35°	789.5	789.5	806.0	811.0	817.6
37.5°	761.4	761.4	777.9	786.2	791.2
40°	731.7	731.7	749.9	758.1	764.7
42.5°	697.0	698.7	720.1	728.4	731.7
45°	664.0	665.6	688.8	693.7	692.1
47.5°	627.6	632.6	655.7	652.4	647.5
50°	591.3	596.3	619.4	606.2	602.9
52.5°	551.7	559.9	579.7	561.6	559.9
55°	512.0	521.9	535.2	520.3	517.0
57.5°	470.7	483.9	487.3	477.3	474.0
60°	424.5	442.7	437.7	429.4	424.5
62.5°	381.5	398.1	391.5	383.2	378.2
65°	338.6	356.8	348.5	338.6	332.0
67.5°	292.4	313.8	303.9	292.4	287.4
70°	246.1	264.3	259.3	247.8	242.8
72.5°	201.5	218.0	216.4	204.8	199.9
75°	160.2	175.1	173.4	161.9	156.9
77.5°	120.6	135.4	130.5	120.6	115.6
80°	84.2	97.5	90.8	80.9	76.0
82.5°	54.5	61.1	54.5	46.2	42.9
85°	29.7	33.0	26.4	23.1	23.1
87.5°	9.9	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)