

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: P345161

Luminaire Tested: **14CZ-25-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345161
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-25-L850-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2427.1 lumens
Efficiency: N/A
Efficacy: 118.4 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

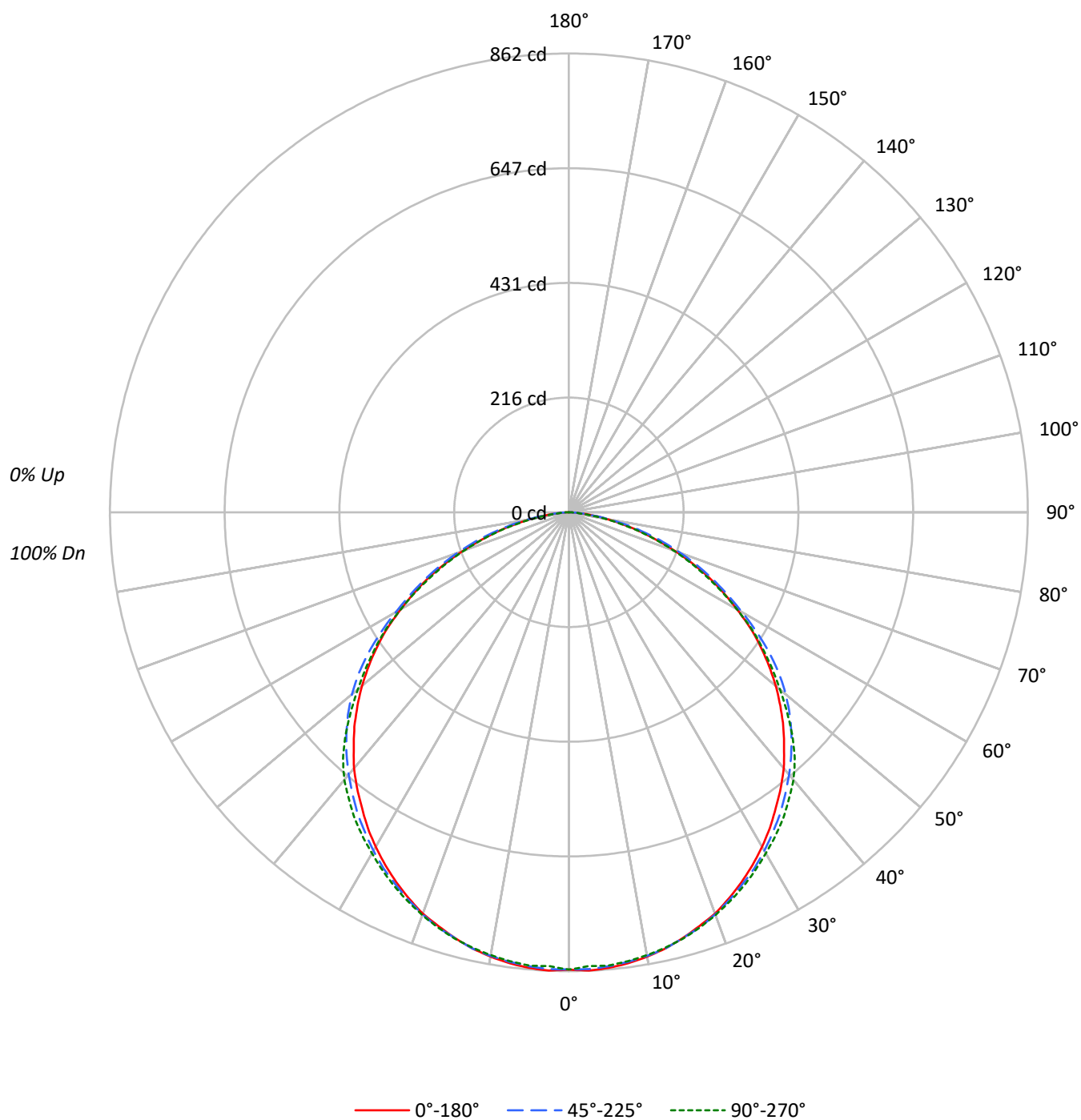
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2311	2311	2311
5°	2320	2312	2308
10°	2316	2312	2308
15°	2306	2306	2310
20°	2297	2301	2305
25°	2276	2289	2302
30°	2255	2281	2299
35°	2226	2272	2305
40°	2206	2260	2305
45°	2168	2249	2260
50°	2124	2225	2166
55°	2061	2154	2081
60°	1960	2021	1960
65°	1850	1904	1814
70°	1662	1751	1639
75°	1430	1547	1399
80°	1120	1209	1010
85°	787	701	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.3
10°-20°	233.5	9.6
20°-30°	354.8	14.6
30°-40°	431.0	17.8
40°-50°	450.2	18.5
50°-60°	400.3	16.5
60°-70°	292.2	12.0
70°-80°	152.4	6.3
80°-90°	31.5	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°	669.6	27.6
0°-40°	1100.5	45.3
0°-60°	1951.0	80.4
0°-90°	2427.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2427.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	859	853	856	855	855	82
15°	828	823	828	829	829	234
25°	767	764	771	772	775	353
35°	678	678	692	696	702	425
45°	570	571	591	595	594	439
55°	439	448	459	446	444	392
65°	290	306	299	290	285	286
75°	138	150	149	139	135	146
85°	26	28	23	20	20	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.9	858.9	858.9	858.9	858.9
2.5°	861.7	856.0	858.9	857.5	853.2
5°	858.9	853.2	856.0	854.6	854.6
7.5°	854.6	849.0	851.8	850.4	850.4
10°	847.5	841.9	846.1	844.7	844.7
12.5°	839.0	833.4	839.0	837.6	837.6
15°	827.7	823.4	827.7	829.1	829.1
17.5°	814.9	812.1	817.8	817.8	817.8
20°	802.2	797.9	803.6	803.6	805.0
22.5°	785.2	780.9	788.0	786.6	790.8
25°	766.7	763.9	771.0	772.4	775.3
27.5°	746.9	745.5	754.0	755.4	758.2
30°	725.6	722.8	734.2	735.6	739.8
32.5°	703.0	703.0	712.9	715.7	721.4
35°	677.5	677.5	691.6	695.9	701.6
37.5°	653.4	653.4	667.5	674.6	678.9
40°	627.9	627.9	643.4	650.5	656.2
42.5°	598.1	599.5	617.9	625.0	627.9
45°	569.7	571.2	591.0	595.3	593.8
47.5°	538.6	542.8	562.7	559.8	555.6
50°	507.4	511.6	531.5	520.1	517.3
52.5°	473.4	480.5	497.5	481.9	480.5
55°	439.4	447.9	459.2	446.4	443.6
57.5°	403.9	415.3	418.1	409.6	406.8
60°	364.2	379.8	375.6	368.5	364.2
62.5°	327.4	341.6	335.9	328.8	324.6
65°	290.5	306.1	299.0	290.5	284.9
67.5°	250.9	269.3	260.8	250.9	246.6
70°	211.2	226.8	222.5	212.6	208.3
72.5°	172.9	187.1	185.7	175.7	171.5
75°	137.5	150.2	148.8	138.9	134.6
77.5°	103.5	116.2	112.0	103.5	99.2
80°	72.3	83.6	78.0	69.4	65.2
82.5°	46.8	52.4	46.8	39.7	36.8
85°	25.5	28.3	22.7	19.8	19.8
87.5°	8.5	9.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)