

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: P345160

Luminaire Tested: **14CZ-25-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345160
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-L840-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2243.5 lumens
Efficiency: N/A
Efficacy: 109.4 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

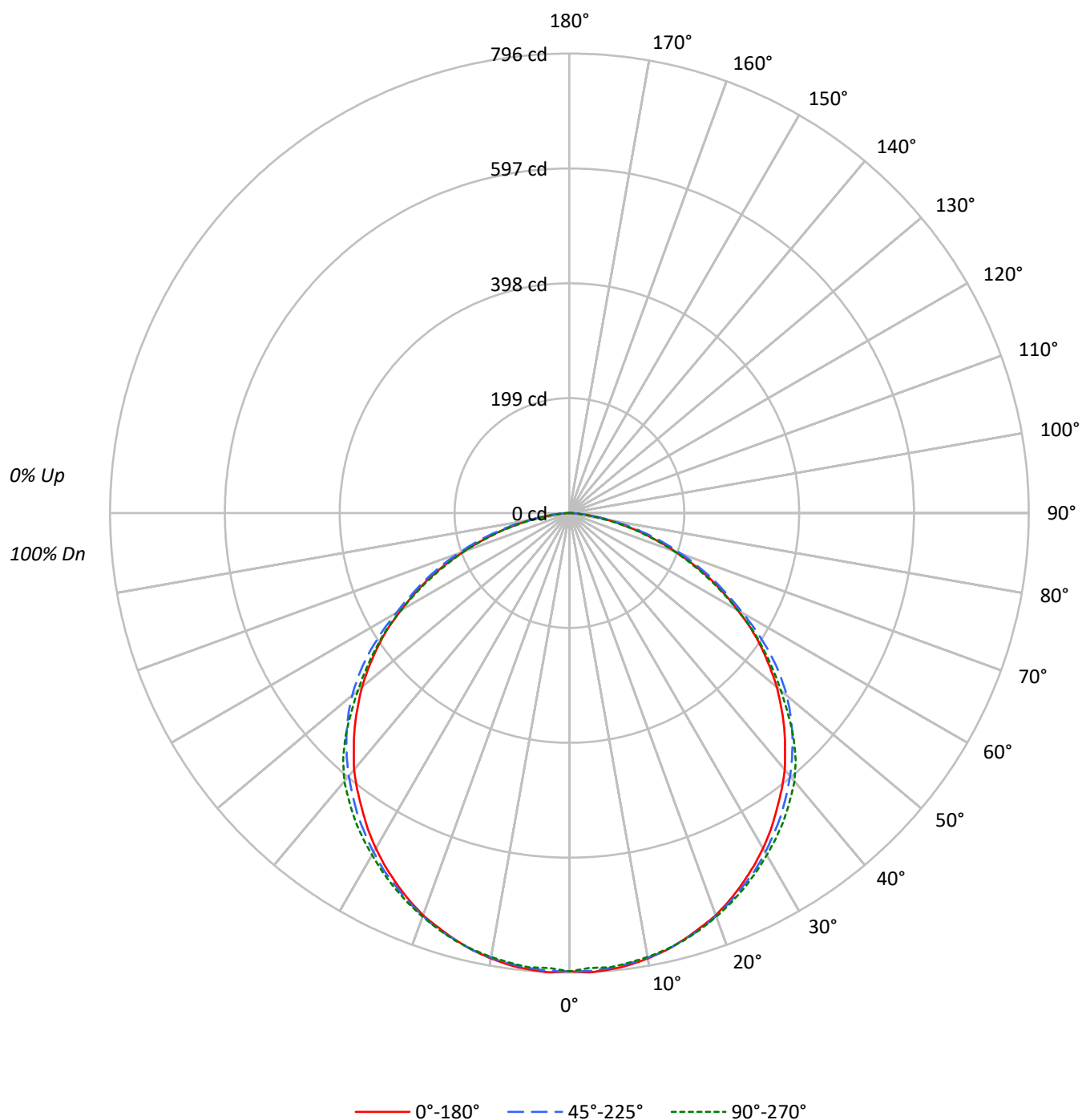
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	2136	2136	2136
5°	2145	2138	2134
10°	2141	2137	2134
15°	2131	2131	2135
20°	2123	2127	2131
25°	2104	2116	2128
30°	2084	2109	2125
35°	2057	2100	2130
40°	2039	2089	2131
45°	2004	2079	2089
50°	1963	2057	2002
55°	1905	1992	1924
60°	1812	1869	1812
65°	1710	1760	1677
70°	1536	1618	1515
75°	1321	1431	1294
80°	1035	1117	934
85°	729	648	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.3
10°-20°	215.8	9.6
20°-30°	327.9	14.6
30°-40°	398.3	17.8
40°-50°	416.1	18.5
50°-60°	370.1	16.5
60°-70°	270.1	12.0
70°-80°	140.9	6.3
80°-90°	29.1	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°	618.9	27.6
0°-40°	1017.3	45.3
0°-60°	1803.5	80.4
0°-90°	2243.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	794	789	791	790	790	75
15°	765	761	765	766	766	216
25°	709	706	713	714	717	327
35°	626	626	639	643	648	392
45°	527	528	546	550	549	406
55°	406	414	424	413	410	362
65°	269	283	276	269	263	264
75°	127	139	138	128	124	135
85°	24	26	21	18	18	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.9	793.9	793.9	793.9	793.9
2.5°	796.5	791.3	793.9	792.6	788.7
5°	793.9	788.7	791.3	790.0	790.0
7.5°	790.0	784.7	787.4	786.0	786.0
10°	783.4	778.2	782.1	780.8	780.8
12.5°	775.6	770.3	775.6	774.3	774.3
15°	765.1	761.2	765.1	766.4	766.4
17.5°	753.3	750.7	755.9	755.9	755.9
20°	741.5	737.6	742.8	742.8	744.1
22.5°	725.8	721.9	728.4	727.1	731.0
25°	708.7	706.1	712.7	714.0	716.6
27.5°	690.4	689.1	697.0	698.3	700.9
30°	670.8	668.1	678.6	679.9	683.9
32.5°	649.8	649.8	659.0	661.6	666.8
35°	626.2	626.2	639.3	643.2	648.5
37.5°	603.9	603.9	617.0	623.6	627.5
40°	580.4	580.4	594.8	601.3	606.6
42.5°	552.9	554.2	571.2	577.7	580.4
45°	526.6	528.0	546.3	550.2	548.9
47.5°	497.8	501.8	520.1	517.5	513.5
50°	469.0	472.9	491.3	480.8	478.2
52.5°	437.6	444.1	459.8	445.4	444.1
55°	406.1	414.0	424.5	412.7	410.1
57.5°	373.4	383.9	386.5	378.6	376.0
60°	336.7	351.1	347.2	340.6	336.7
62.5°	302.6	315.7	310.5	303.9	300.0
65°	268.6	283.0	276.4	268.6	263.3
67.5°	231.9	248.9	241.1	231.9	228.0
70°	195.2	209.6	205.7	196.5	192.6
72.5°	159.8	172.9	171.6	162.4	158.5
75°	127.1	138.9	137.6	128.4	124.5
77.5°	95.6	107.4	103.5	95.6	91.7
80°	66.8	77.3	72.1	64.2	60.3
82.5°	43.2	48.5	43.2	36.7	34.1
85°	23.6	26.2	21.0	18.3	18.3
87.5°	7.9	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)