

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: P345158

Luminaire Tested: **14CZ-25-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345158
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-L830-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2179.4 lumens
Efficiency: N/A
Efficacy: 106.3 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

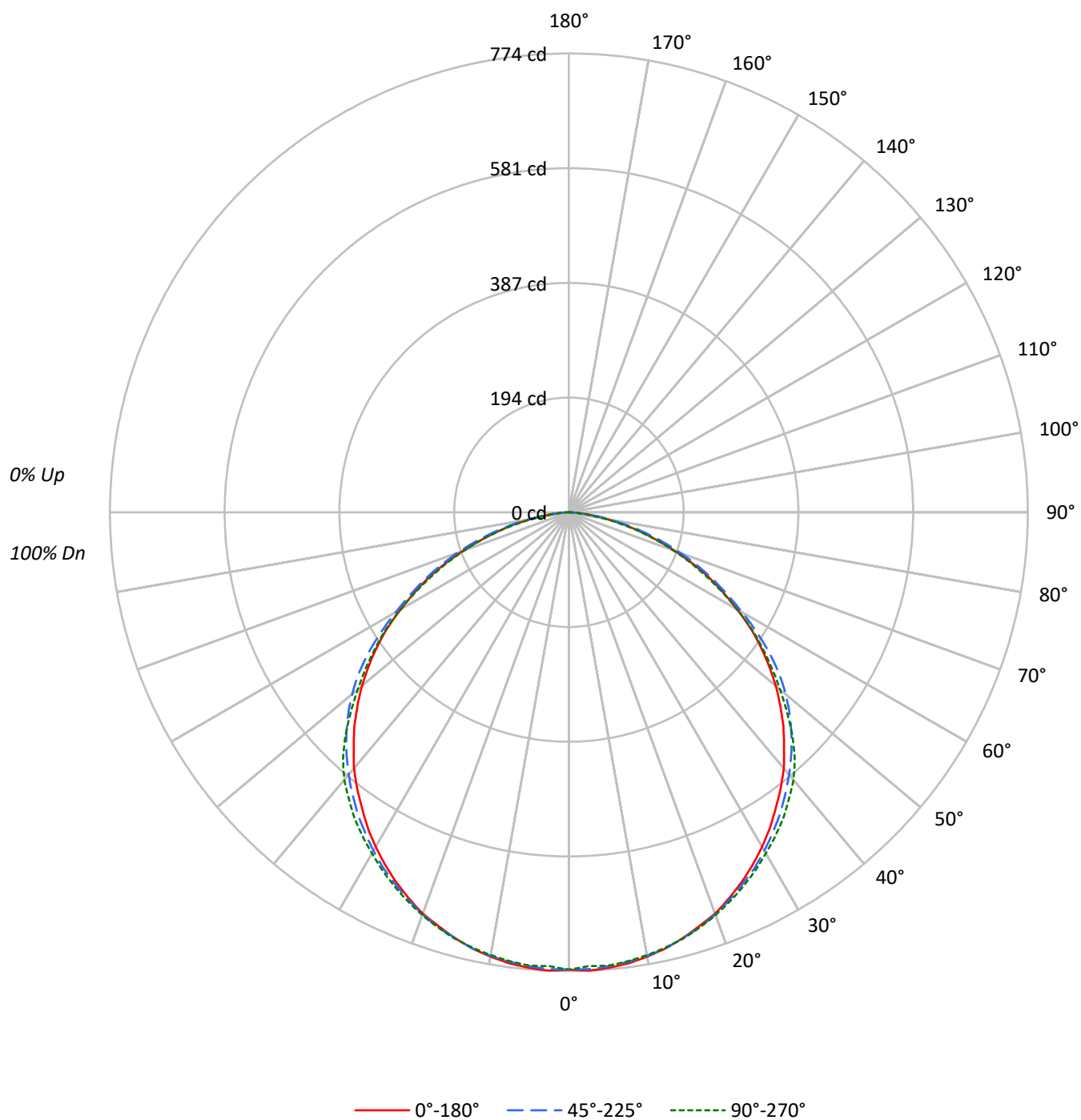
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
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°	2075	2075	2075
5°	2083	2076	2073
10°	2079	2076	2073
15°	2070	2070	2074
20°	2063	2066	2070
25°	2044	2056	2067
30°	2025	2048	2064
35°	1998	2040	2070
40°	1981	2030	2070
45°	1947	2020	2029
50°	1907	1998	1945
55°	1851	1934	1869
60°	1760	1815	1760
65°	1661	1710	1629
70°	1492	1572	1472
75°	1283	1389	1257
80°	1006	1085	907
85°	707	630	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.3
10°-20°	209.7	9.6
20°-30°	318.6	14.6
30°-40°	387.0	17.8
40°-50°	404.2	18.5
50°-60°	359.5	16.5
60°-70°	262.4	12.0
70°-80°	136.8	6.3
80°-90°	28.3	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°	601.2	27.6
0°-40°	988.2	45.3
0°-60°	1751.9	80.4
0°-90°	2179.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	771	766	769	767	767	73
15°	743	739	743	744	744	210
25°	688	686	692	694	696	317
35°	608	608	621	625	630	381
45°	512	513	531	534	533	394
55°	394	402	412	401	398	352
65°	261	275	268	261	256	257
75°	123	135	134	125	121	131
85°	23	26	20	18	18	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.2	771.2	771.2	771.2	771.2
2.5°	773.8	768.7	771.2	769.9	766.1
5°	771.2	766.1	768.7	767.4	767.4
7.5°	767.4	762.3	764.8	763.6	763.6
10°	761.0	755.9	759.8	758.5	758.5
12.5°	753.4	748.3	753.4	752.1	752.1
15°	743.2	739.4	743.2	744.5	744.5
17.5°	731.8	729.2	734.3	734.3	734.3
20°	720.3	716.5	721.6	721.6	722.9
22.5°	705.0	701.2	707.6	706.3	710.1
25°	688.5	685.9	692.3	693.6	696.1
27.5°	670.7	669.4	677.0	678.3	680.9
30°	651.6	649.0	659.2	660.5	664.3
32.5°	631.2	631.2	640.1	642.7	647.8
35°	608.3	608.3	621.0	624.9	630.0
37.5°	586.7	586.7	599.4	605.8	609.6
40°	563.8	563.8	577.8	584.1	589.2
42.5°	537.0	538.3	554.9	561.2	563.8
45°	511.6	512.9	530.7	534.5	533.2
47.5°	483.6	487.4	505.2	502.7	498.9
50°	455.6	459.4	477.2	467.1	464.5
52.5°	425.1	431.4	446.7	432.7	431.4
55°	394.5	402.2	412.3	400.9	398.3
57.5°	362.7	372.9	375.4	367.8	365.2
60°	327.1	341.1	337.2	330.9	327.1
62.5°	294.0	306.7	301.6	295.2	291.4
65°	260.9	274.9	268.5	260.9	255.8
67.5°	225.3	241.8	234.2	225.3	221.4
70°	189.6	203.6	199.8	190.9	187.1
72.5°	155.3	168.0	166.7	157.8	154.0
75°	123.4	134.9	133.6	124.7	120.9
77.5°	92.9	104.4	100.5	92.9	89.1
80°	64.9	75.1	70.0	62.4	58.5
82.5°	42.0	47.1	42.0	35.6	33.1
85°	22.9	25.5	20.4	17.8	17.8
87.5°	7.6	8.9	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)