

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: P345162

Luminaire Tested: **14CZ-29-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345162
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-L830-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2539.5 lumens
Efficiency: N/A
Efficacy: 103.7 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

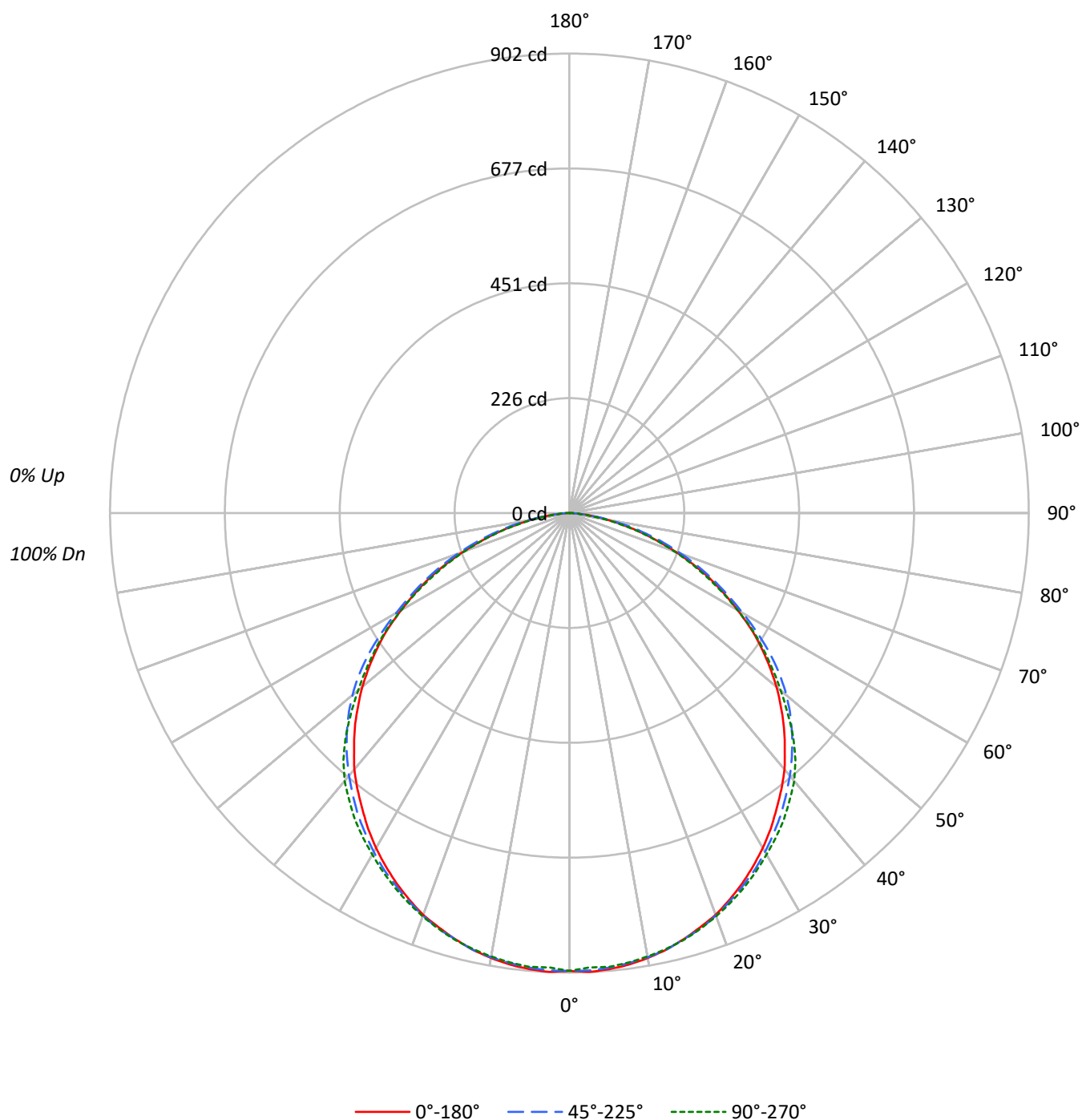
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2418	2418	2418
5°	2428	2420	2415
10°	2423	2419	2415
15°	2413	2413	2417
20°	2403	2408	2412
25°	2382	2395	2409
30°	2359	2387	2405
35°	2328	2377	2412
40°	2308	2365	2412
45°	2269	2353	2365
50°	2223	2328	2266
55°	2157	2254	2178
60°	2051	2115	2051
65°	1936	1992	1898
70°	1739	1832	1715
75°	1495	1619	1465
80°	1172	1265	1057
85°	824	732	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	3.3
10°-20°	244.3	9.6
20°-30°	371.2	14.6
30°-40°	450.9	17.8
40°-50°	471.0	18.5
50°-60°	418.9	16.5
60°-70°	305.7	12.0
70°-80°	159.5	6.3
80°-90°	32.9	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°	700.6	27.6
0°-40°	1151.5	45.3
0°-60°	2041.4	80.4
0°-90°	2539.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2539.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	899	893	896	894	894	85
15°	866	862	866	868	868	244
25°	802	799	807	808	811	370
35°	709	709	724	728	734	444
45°	596	598	618	623	621	459
55°	460	469	480	467	464	410
65°	304	320	313	304	298	299
75°	144	157	156	145	141	153
85°	27	30	24	21	21	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.7	898.7	898.7	898.7	898.7
2.5°	901.6	895.7	898.7	897.2	892.7
5°	898.7	892.7	895.7	894.2	894.2
7.5°	894.2	888.3	891.2	889.8	889.8
10°	886.8	880.9	885.3	883.8	883.8
12.5°	877.9	872.0	877.9	876.4	876.4
15°	866.0	861.6	866.0	867.5	867.5
17.5°	852.7	849.7	855.7	855.7	855.7
20°	839.3	834.9	840.8	840.8	842.3
22.5°	821.5	817.1	824.5	823.0	827.5
25°	802.3	799.3	806.7	808.2	811.2
27.5°	781.5	780.0	788.9	790.4	793.4
30°	759.3	756.3	768.2	769.6	774.1
32.5°	735.5	735.5	745.9	748.9	754.8
35°	708.8	708.8	723.7	728.1	734.1
37.5°	683.6	683.6	698.5	705.9	710.3
40°	656.9	656.9	673.3	680.7	686.6
42.5°	625.8	627.3	646.6	654.0	656.9
45°	596.1	597.6	618.4	622.8	621.4
47.5°	563.5	568.0	588.7	585.8	581.3
50°	530.9	535.3	556.1	544.2	541.3
52.5°	495.3	502.7	520.5	504.2	502.7
55°	459.7	468.6	480.5	467.1	464.2
57.5°	422.6	434.5	437.5	428.6	425.6
60°	381.1	397.4	393.0	385.6	381.1
62.5°	342.6	357.4	351.5	344.0	339.6
65°	304.0	320.3	312.9	304.0	298.1
67.5°	262.5	281.8	272.9	262.5	258.0
70°	221.0	237.3	232.8	222.4	218.0
72.5°	180.9	195.7	194.3	183.9	179.4
75°	143.8	157.2	155.7	145.3	140.9
77.5°	108.3	121.6	117.2	108.3	103.8
80°	75.6	87.5	81.6	72.7	68.2
82.5°	48.9	54.9	48.9	41.5	38.6
85°	26.7	29.7	23.7	20.8	20.8
87.5°	8.9	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)