

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: P345159

Luminaire Tested: **14CZ-25-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345159
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-L835-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.6 lumens
Efficiency: N/A
Efficacy: 107.3 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

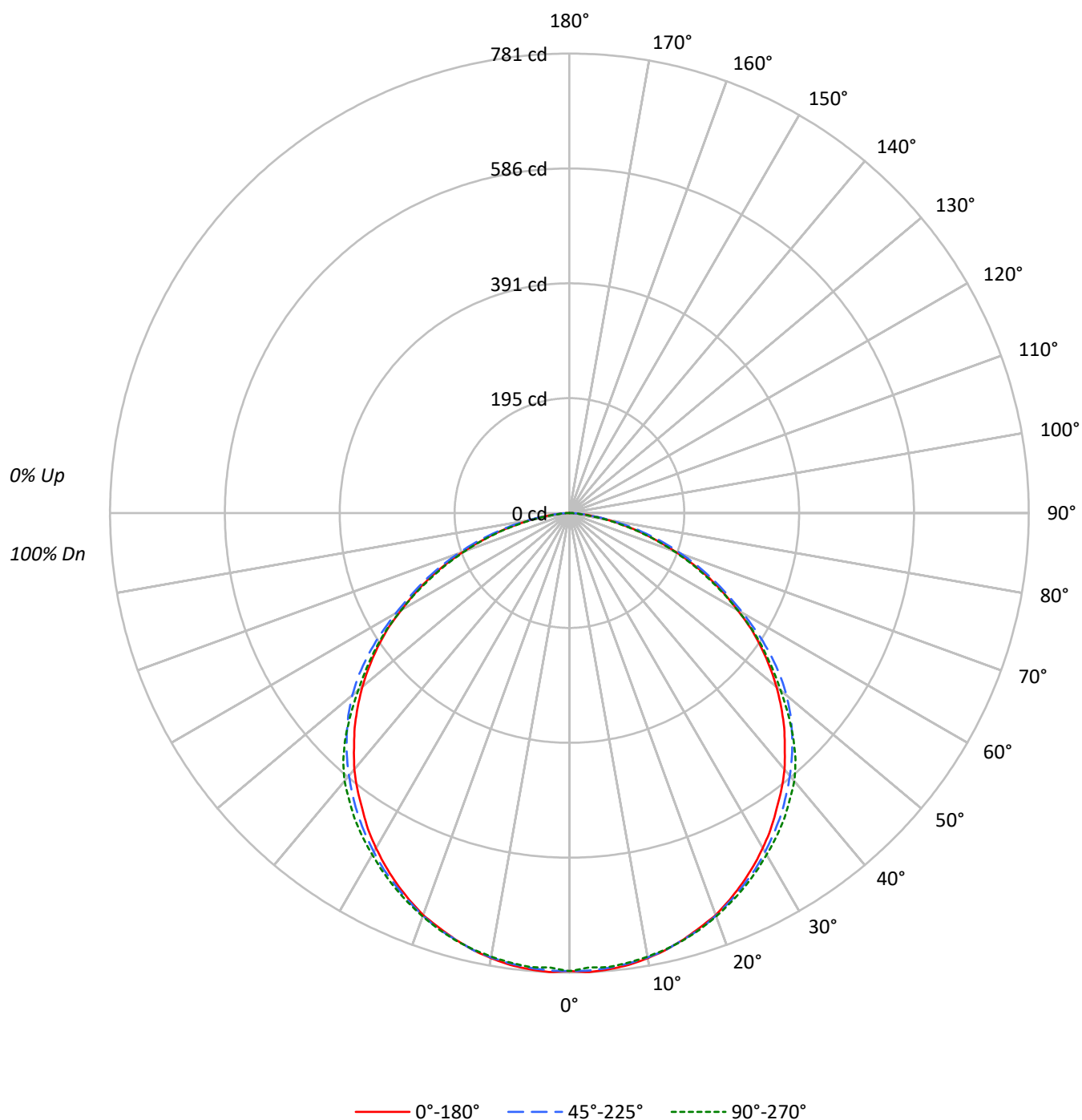
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	100	96	106	102	98	95		98	95	92			94	91	89			90
2	99	91	84	79	97	89	83	78		86	80	76			82	78	74			79
3	90	80	72	65	88	78	71	65		75	69	64			73	67	63			70
4	83	71	62	55	81	70	61	55		67	60	54			65	59	54			63
5	76	63	54	48	74	62	54	47		60	53	47			58	52	46			56
6	70	57	48	42	68	56	48	41		54	47	41			53	46	41			51
7	65	52	43	37	63	51	43	37		49	42	36			48	41	36			46
8	61	47	39	33	59	46	38	33		45	38	32			44	37	32			43
9	57	43	35	29	55	43	35	29		41	34	29			40	34	29			39
10	53	40	32	27	52	39	32	27		38	31	26			37	31	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2095	2095	2095
5°	2103	2096	2092
10°	2099	2095	2092
15°	2090	2090	2093
20°	2082	2086	2089
25°	2063	2075	2086
30°	2043	2067	2083
35°	2017	2059	2089
40°	1999	2048	2089
45°	1965	2038	2048
50°	1925	2017	1963
55°	1868	1953	1886
60°	1777	1832	1777
65°	1677	1726	1644
70°	1506	1587	1485
75°	1295	1403	1268
80°	1015	1094	916
85°	713	636	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.3
10°-20°	211.6	9.6
20°-30°	321.5	14.6
30°-40°	390.6	17.8
40°-50°	408.0	18.5
50°-60°	362.8	16.5
60°-70°	264.8	12.0
70°-80°	138.1	6.3
80°-90°	28.5	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°	606.8	27.6
0°-40°	997.4	45.3
0°-60°	1768.1	80.4
0°-90°	2199.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	778	773	776	774	774	74
15°	750	746	750	751	751	212
25°	695	692	699	700	703	320
35°	614	614	627	631	636	385
45°	516	518	536	540	538	398
55°	398	406	416	405	402	355
65°	263	277	271	263	258	259
75°	125	136	135	126	122	133
85°	23	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°	778.4	778.4	778.4	778.4	778.4
2.5°	780.9	775.8	778.4	777.1	773.2
5°	778.4	773.2	775.8	774.5	774.5
7.5°	774.5	769.4	771.9	770.7	770.7
10°	768.1	762.9	766.8	765.5	765.5
12.5°	760.4	755.2	760.4	759.1	759.1
15°	750.1	746.3	750.1	751.4	751.4
17.5°	738.5	736.0	741.1	741.1	741.1
20°	727.0	723.1	728.3	728.3	729.6
22.5°	711.6	707.7	714.1	712.9	716.7
25°	694.9	692.3	698.7	700.0	702.6
27.5°	676.9	675.6	683.3	684.6	687.2
30°	657.6	655.1	665.3	666.6	670.5
32.5°	637.1	637.1	646.1	648.6	653.8
35°	614.0	614.0	626.8	630.7	635.8
37.5°	592.1	592.1	605.0	611.4	615.2
40°	569.0	569.0	583.1	589.6	594.7
42.5°	542.0	543.3	560.0	566.4	569.0
45°	516.3	517.6	535.6	539.5	538.2
47.5°	488.1	491.9	509.9	507.3	503.5
50°	459.8	463.7	481.7	471.4	468.8
52.5°	429.0	435.4	450.8	436.7	435.4
55°	398.2	405.9	416.2	404.6	402.0
57.5°	366.1	376.3	378.9	371.2	368.6
60°	330.1	344.2	340.4	334.0	330.1
62.5°	296.7	309.5	304.4	298.0	294.1
65°	263.3	277.4	271.0	263.3	258.2
67.5°	227.3	244.0	236.3	227.3	223.5
70°	191.4	205.5	201.7	192.7	188.8
72.5°	156.7	169.5	168.3	159.3	155.4
75°	124.6	136.1	134.9	125.9	122.0
77.5°	93.8	105.3	101.5	93.8	89.9
80°	65.5	75.8	70.6	62.9	59.1
82.5°	42.4	47.5	42.4	36.0	33.4
85°	23.1	25.7	20.6	18.0	18.0
87.5°	7.7	9.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)