

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: P345172

Luminaire Tested: **14CZ-39-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345172
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-39-L840-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3547.1 lumens
Efficiency: N/A
Efficacy: 99.4 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

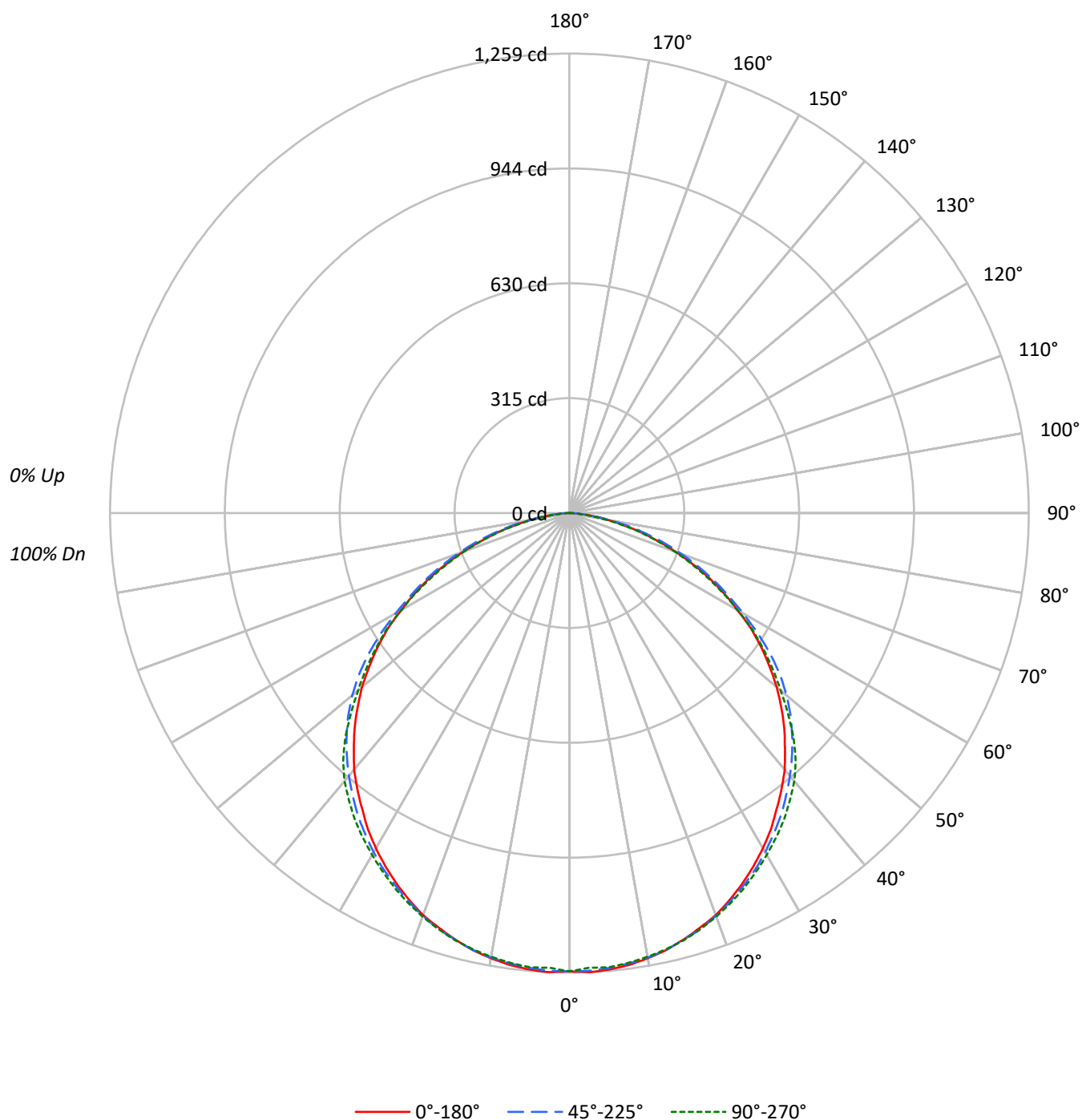
Input Watts (W): 35.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3378	3378	3378
5°	3391	3380	3374
10°	3384	3379	3373
15°	3370	3370	3376
20°	3357	3363	3369
25°	3327	3346	3364
30°	3295	3334	3360
35°	3253	3321	3368
40°	3223	3303	3369
45°	3169	3287	3303
50°	3104	3252	3165
55°	3012	3149	3042
60°	2865	2954	2865
65°	2704	2783	2651
70°	2428	2559	2396
75°	2089	2261	2046
80°	1636	1765	1477
85°	1152	1022	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.3
10°-20°	341.3	9.6
20°-30°	518.5	14.6
30°-40°	629.8	17.8
40°-50°	657.9	18.5
50°-60°	585.1	16.5
60°-70°	427.0	12.0
70°-80°	222.7	6.3
80°-90°	46.0	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°	978.6	27.6
0°-40°	1608.4	45.3
0°-60°	2851.3	80.4
0°-90°	3547.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3547.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1255	1247	1251	1249	1249	119
15°	1210	1203	1210	1212	1212	341
25°	1121	1116	1127	1129	1133	516
35°	990	990	1011	1017	1025	620
45°	833	835	864	870	868	642
55°	642	654	671	652	648	573
65°	425	447	437	425	416	418
75°	201	220	218	203	197	214
85°	37	41	33	29	29	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.2	1255.2	1255.2	1255.2	1255.2
2.5°	1259.3	1251.1	1255.2	1253.1	1246.9
5°	1255.2	1246.9	1251.1	1249.0	1249.0
7.5°	1249.0	1240.7	1244.8	1242.8	1242.8
10°	1238.6	1230.3	1236.6	1234.5	1234.5
12.5°	1226.2	1217.9	1226.2	1224.1	1224.1
15°	1209.6	1203.4	1209.6	1211.7	1211.7
17.5°	1191.0	1186.8	1195.1	1195.1	1195.1
20°	1172.4	1166.1	1174.4	1174.4	1176.5
22.5°	1147.5	1141.3	1151.6	1149.6	1155.8
25°	1120.6	1116.4	1126.8	1128.9	1133.0
27.5°	1091.6	1089.5	1101.9	1104.0	1108.1
30°	1060.5	1056.4	1072.9	1075.0	1081.2
32.5°	1027.4	1027.4	1041.9	1046.0	1054.3
35°	990.1	990.1	1010.8	1017.0	1025.3
37.5°	954.9	954.9	975.6	985.9	992.1
40°	917.6	917.6	940.4	950.7	959.0
42.5°	874.1	876.2	903.1	913.4	917.6
45°	832.7	834.7	863.7	869.9	867.9
47.5°	787.1	793.3	822.3	818.2	811.9
50°	741.5	747.7	776.7	760.2	756.0
52.5°	691.8	702.2	727.0	704.2	702.2
55°	642.1	654.5	671.1	652.5	648.3
57.5°	590.3	606.9	611.0	598.6	594.5
60°	532.3	555.1	548.9	538.5	532.3
62.5°	478.5	499.2	490.9	480.5	474.3
65°	424.6	447.4	437.0	424.6	416.3
67.5°	366.6	393.5	381.1	366.6	360.4
70°	308.6	331.4	325.2	310.7	304.5
72.5°	252.7	273.4	271.3	256.8	250.6
75°	200.9	219.6	217.5	203.0	196.8
77.5°	151.2	169.8	163.6	151.2	145.0
80°	105.6	122.2	113.9	101.5	95.3
82.5°	68.4	76.6	68.4	58.0	53.9
85°	37.3	41.4	33.1	29.0	29.0
87.5°	12.4	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)