

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: P345128

Luminaire Tested: **22CZ-39-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-39-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3542.8 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

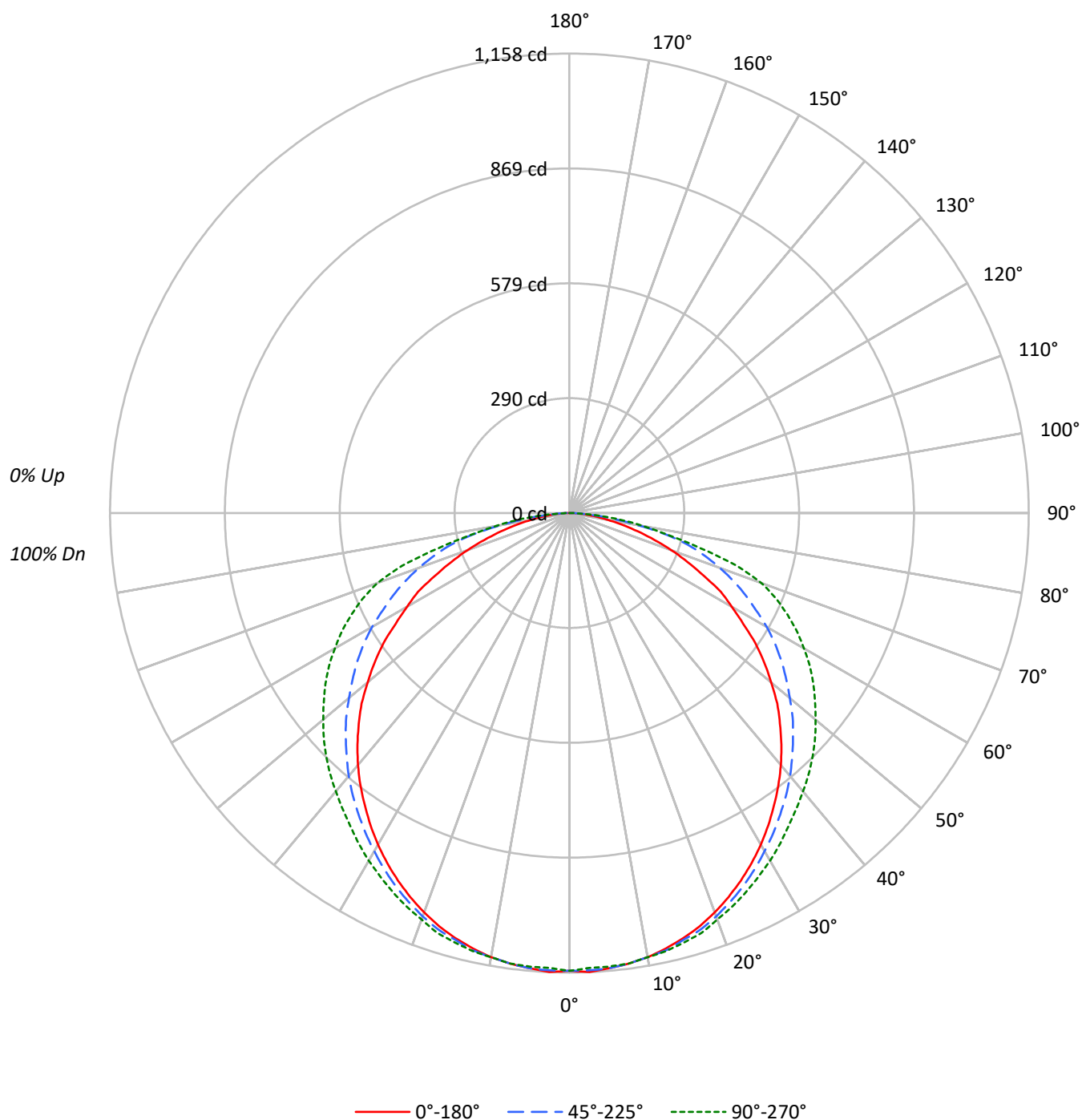
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3104	3104	3104
5°	3110	3110	3099
10°	3106	3106	3106
15°	3090	3102	3119
20°	3067	3097	3121
25°	3035	3079	3129
30°	2998	3058	3143
35°	2954	3044	3163
40°	2913	3039	3218
45°	2857	3034	3301
50°	2779	3036	3391
55°	2686	3064	3522
60°	2545	3093	3675
65°	2376	3119	3862
70°	2153	3170	4054
75°	1852	3219	3550
80°	1511	2695	2924
85°	1244	1964	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	3.1
10°-20°	314.5	8.9
20°-30°	478.1	13.5
30°-40°	581.8	16.4
40°-50°	619.7	17.5
50°-60°	586.2	16.5
60°-70°	483.2	13.6
70°-80°	297.2	8.4
80°-90°	72.6	2.0
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°	902.0	25.5
0°-40°	1483.9	41.9
0°-60°	2689.8	75.9
0°-90°	3542.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3542.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1152	1152	1152	1149	1147	109
15°	1109	1111	1113	1118	1120	313
25°	1022	1026	1037	1048	1054	471
35°	899	908	927	950	963	563
45°	751	763	797	842	867	579
55°	573	594	653	717	751	510
65°	373	409	490	568	606	371
75°	178	227	310	337	341	191
85°	40	53	64	68	70	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.6	1153.6	1153.6	1153.6	1153.6
2.5°	1157.8	1155.7	1153.6	1149.4	1147.2
5°	1151.5	1151.5	1151.5	1149.4	1147.2
7.5°	1145.1	1145.1	1145.1	1145.1	1145.1
10°	1136.6	1136.6	1136.6	1136.6	1136.6
12.5°	1123.9	1126.0	1128.2	1128.2	1130.3
15°	1109.1	1111.2	1113.3	1117.6	1119.7
17.5°	1092.1	1094.2	1100.6	1104.8	1109.1
20°	1070.9	1073.0	1081.5	1085.7	1090.0
22.5°	1047.6	1051.8	1060.3	1068.8	1073.0
25°	1022.1	1026.4	1037.0	1047.6	1053.9
27.5°	994.6	998.8	1011.5	1026.4	1032.7
30°	964.9	969.1	984.0	1000.9	1011.5
32.5°	933.1	939.4	956.4	977.6	988.2
35°	899.1	907.6	926.7	950.0	962.8
37.5°	865.2	873.7	897.0	924.6	939.4
40°	829.2	839.8	865.2	897.0	916.1
42.5°	791.0	803.7	831.3	869.4	892.8
45°	750.7	763.4	797.3	841.9	867.3
47.5°	710.4	725.2	763.4	812.2	839.8
50°	663.7	680.7	725.2	782.5	810.1
52.5°	619.2	640.4	689.2	750.7	780.4
55°	572.6	593.8	653.1	716.8	750.7
57.5°	519.5	545.0	615.0	682.8	718.9
60°	472.9	498.3	574.7	646.8	682.8
62.5°	430.5	453.8	530.2	608.6	646.8
65°	373.2	409.3	489.9	568.3	606.5
67.5°	322.3	362.6	447.4	521.7	564.1
70°	273.6	316.0	402.9	475.0	515.3
72.5°	224.8	271.4	358.4	422.0	443.2
75°	178.1	226.9	309.6	337.2	341.4
77.5°	135.7	184.5	250.2	248.1	252.4
80°	97.5	140.0	173.9	180.3	188.7
82.5°	65.7	97.5	112.4	123.0	131.5
85°	40.3	53.0	63.6	67.9	70.0
87.5°	19.1	21.2	21.2	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)