

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: P345127

Luminaire Tested: **22CZ-39-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345127
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

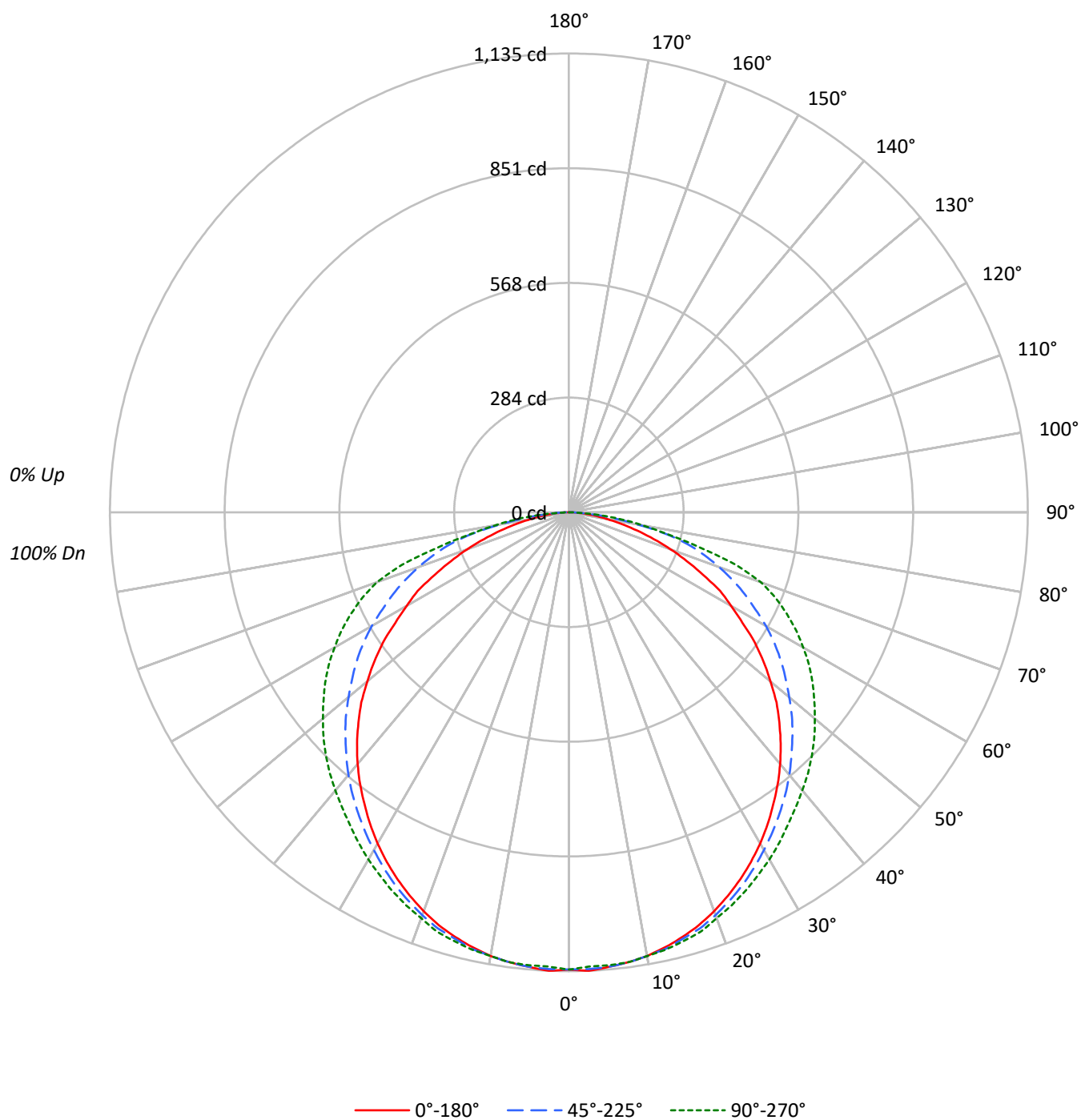
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3043	3043	3043
5°	3049	3049	3038
10°	3045	3045	3045
15°	3029	3041	3058
20°	3006	3036	3060
25°	2975	3018	3068
30°	2939	2997	3081
35°	2895	2984	3100
40°	2855	2980	3155
45°	2801	2974	3236
50°	2724	2977	3324
55°	2633	3004	3453
60°	2495	3032	3603
65°	2330	3058	3785
70°	2110	3108	3975
75°	1815	3156	3480
80°	1481	2642	2867
85°	1220	1927	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.1
10°-20°	308.4	8.9
20°-30°	468.7	13.5
30°-40°	570.4	16.4
40°-50°	607.5	17.5
50°-60°	574.7	16.5
60°-70°	473.7	13.6
70°-80°	291.3	8.4
80°-90°	71.1	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°	884.3	25.5
0°-40°	1454.6	41.9
0°-60°	2636.9	75.9
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1129	1129	1129	1127	1125	107
15°	1087	1089	1091	1096	1098	307
25°	1002	1006	1017	1027	1033	462
35°	881	890	908	931	944	552
45°	736	748	782	825	850	567
55°	561	582	640	703	736	500
65°	366	401	480	557	594	363
75°	175	222	304	330	335	187
85°	40	52	62	66	69	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1135.0	1133.0	1130.9	1126.7	1124.7
5°	1128.8	1128.8	1128.8	1126.7	1124.7
7.5°	1122.6	1122.6	1122.6	1122.6	1122.6
10°	1114.3	1114.3	1114.3	1114.3	1114.3
12.5°	1101.8	1103.9	1105.9	1105.9	1108.0
15°	1087.2	1089.3	1091.4	1095.5	1097.6
17.5°	1070.6	1072.7	1078.9	1083.1	1087.2
20°	1049.8	1051.9	1060.2	1064.4	1068.5
22.5°	1026.9	1031.1	1039.4	1047.7	1051.9
25°	1002.0	1006.2	1016.6	1026.9	1033.2
27.5°	975.0	979.1	991.6	1006.2	1012.4
30°	945.9	950.0	964.6	981.2	991.6
32.5°	914.7	920.9	937.6	958.3	968.7
35°	881.4	889.7	908.5	931.3	943.8
37.5°	848.2	856.5	879.3	906.4	920.9
40°	812.8	823.2	848.2	879.3	898.1
42.5°	775.4	787.9	814.9	852.3	875.2
45°	735.9	748.4	781.6	825.3	850.2
47.5°	696.4	711.0	748.4	796.2	823.2
50°	650.7	667.3	711.0	767.1	794.1
52.5°	607.0	627.8	675.6	735.9	765.0
55°	561.3	582.1	640.3	702.6	735.9
57.5°	509.3	534.3	602.9	669.4	704.7
60°	463.6	488.5	563.4	634.0	669.4
62.5°	422.0	444.9	519.7	596.6	634.0
65°	365.9	401.2	480.2	557.1	594.5
67.5°	316.0	355.5	438.6	511.4	553.0
70°	268.2	309.7	395.0	465.7	505.2
72.5°	220.4	266.1	351.3	413.7	434.5
75°	174.6	222.4	303.5	330.5	334.7
77.5°	133.0	180.9	245.3	243.2	247.4
80°	95.6	137.2	170.5	176.7	185.0
82.5°	64.4	95.6	110.2	120.6	128.9
85°	39.5	52.0	62.4	66.5	68.6
87.5°	18.7	20.8	20.8	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)