

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: P345045

Luminaire Tested: **24CZ-35-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-35-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3272.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

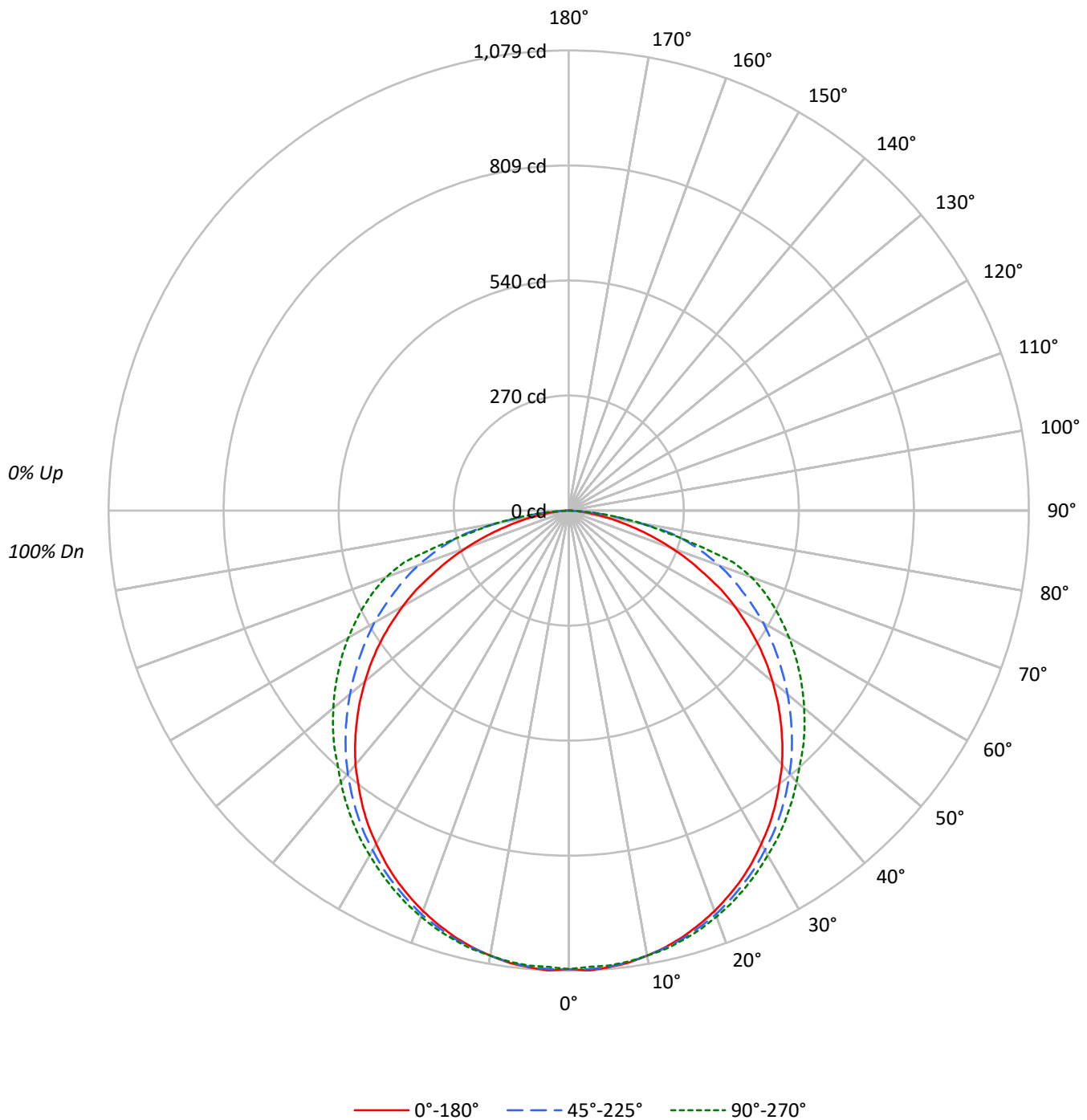
Input Watts (W): 25.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68		
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57		
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48		
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36		
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1447	1447	1447
5°	1452	1450	1446
10°	1448	1448	1448
15°	1441	1447	1451
20°	1431	1443	1451
25°	1419	1436	1450
30°	1402	1429	1450
35°	1386	1423	1455
40°	1366	1416	1460
45°	1339	1408	1480
50°	1306	1402	1508
55°	1266	1404	1549
60°	1211	1418	1607
65°	1120	1433	1687
70°	1009	1478	1792
75°	853	1523	1603
80°	662	1303	1347
85°	475	888	780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	3.1
10°-20°	292.6	8.9
20°-30°	445.0	13.6
30°-40°	540.7	16.5
40°-50°	570.6	17.4
50°-60°	536.2	16.4
60°-70°	441.4	13.5
70°-80°	278.1	8.5
80°-90°	65.7	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°	839.5	25.7
0°-40°	1380.2	42.2
0°-60°	2487.0	76.0
0°-90°	3272.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1075	1070	1074	1072	1071	102
15°	1034	1030	1039	1042	1042	292
25°	956	955	967	973	977	440
35°	844	848	866	878	886	528
45°	704	715	740	761	778	543
55°	540	559	598	641	660	482
65°	352	386	450	507	530	349
75°	164	214	293	320	308	175
85°	31	52	58	53	50	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.1	1075.1	1075.1	1075.1	1075.1
2.5°	1079.3	1072.3	1076.5	1075.1	1070.9
5°	1075.1	1069.5	1073.7	1072.3	1070.9
7.5°	1069.5	1063.9	1068.1	1066.7	1066.7
10°	1059.7	1055.5	1059.7	1059.7	1059.7
12.5°	1048.5	1044.3	1049.9	1051.3	1052.7
15°	1034.5	1030.3	1038.7	1041.5	1041.5
17.5°	1017.7	1014.8	1023.3	1026.1	1028.9
20°	999.4	998.0	1007.8	1010.6	1013.4
22.5°	978.4	978.4	988.2	991.0	996.6
25°	956.0	954.6	967.2	972.8	977.0
27.5°	930.7	930.7	944.8	951.8	956.0
30°	902.7	905.5	919.5	927.9	933.5
32.5°	874.7	877.5	894.3	904.1	911.1
35°	843.8	848.0	866.3	877.5	885.9
37.5°	810.2	817.2	836.8	849.4	859.3
40°	778.0	783.6	806.0	820.0	831.2
42.5°	741.5	751.3	773.8	790.6	803.2
45°	703.7	714.9	740.1	761.1	778.0
47.5°	664.4	678.4	705.1	733.1	749.9
50°	623.8	639.2	670.0	703.7	720.5
52.5°	583.1	599.9	633.6	672.8	691.0
55°	539.7	559.3	598.5	640.6	660.2
57.5°	494.8	517.2	562.1	609.7	629.4
60°	450.0	473.8	527.0	574.7	597.1
62.5°	403.7	430.3	487.8	542.5	563.5
65°	351.8	385.5	450.0	507.4	529.9
67.5°	304.2	339.2	413.5	471.0	494.8
70°	256.5	297.2	375.7	433.1	455.6
72.5°	208.9	256.5	333.6	392.5	405.1
75°	164.0	214.5	293.0	319.6	308.4
77.5°	120.5	176.6	246.7	232.7	229.9
80°	85.5	140.2	168.2	169.6	173.8
82.5°	54.7	103.7	109.3	110.7	112.1
85°	30.8	51.9	57.5	53.3	50.5
87.5°	14.0	16.8	14.0	9.8	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)