

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: P345079

Luminaire Tested: **24CZ-30SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345079  
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-30SE-L835-HRP-UNV-CD1-U  
Description: CRUZE 2X4 WITH HRP LENS INSERT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2594.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

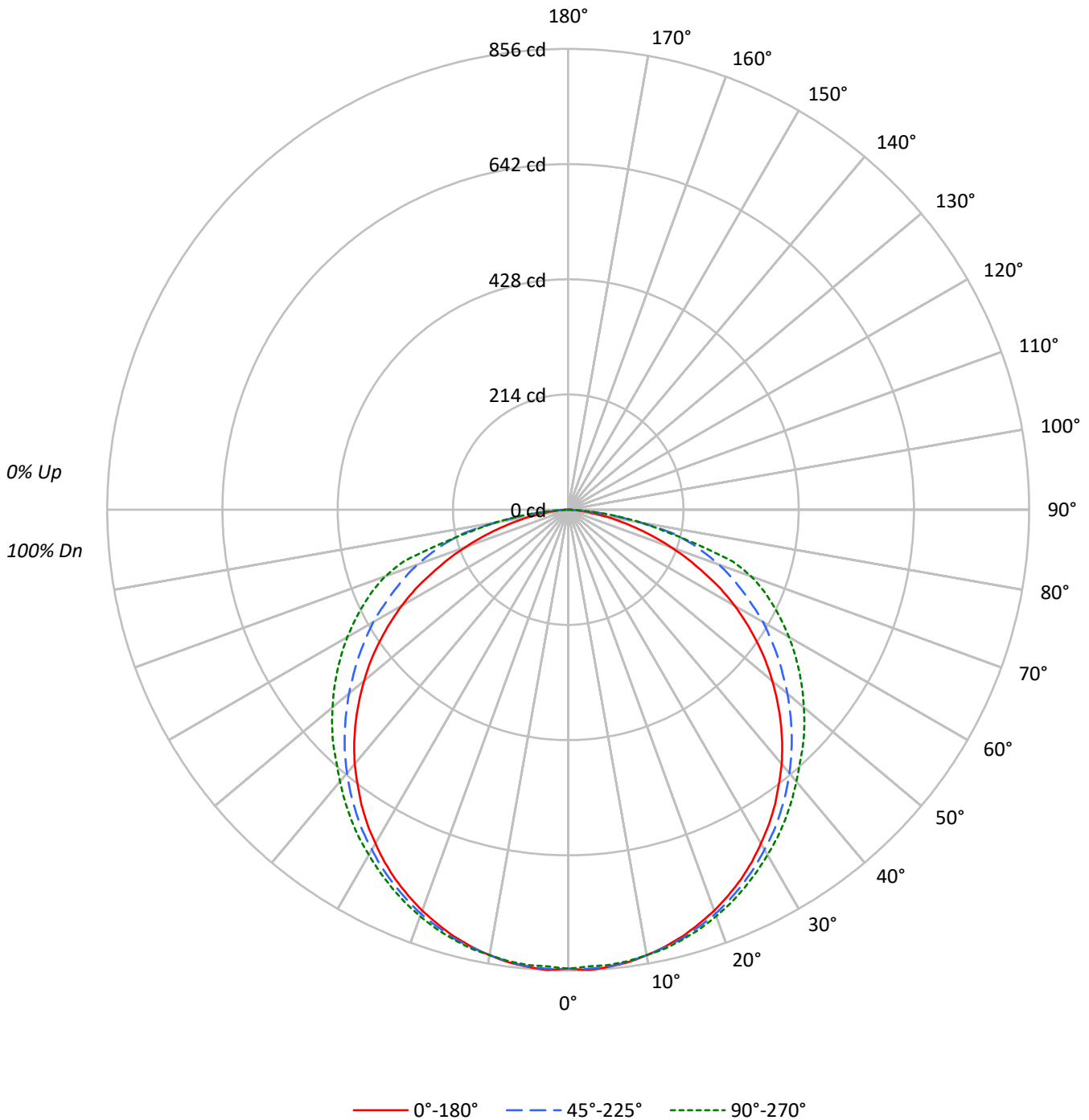
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	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°	1147	1147	1147
5°	1152	1150	1147
10°	1148	1148	1148
15°	1143	1147	1150
20°	1135	1144	1151
25°	1125	1139	1150
30°	1112	1133	1150
35°	1099	1128	1154
40°	1084	1123	1158
45°	1062	1117	1174
50°	1035	1112	1196
55°	1004	1113	1228
60°	960	1125	1274
65°	888	1136	1338
70°	800	1172	1421
75°	676	1208	1271
80°	525	1034	1068
85°	378	704	618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.1
10°-20°	232.1	8.9
20°-30°	352.9	13.6
30°-40°	428.7	16.5
40°-50°	452.5	17.4
50°-60°	425.2	16.4
60°-70°	350.0	13.5
70°-80°	220.5	8.5
80°-90°	52.1	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°	665.8	25.7
0°-40°	1094.5	42.2
0°-60°	1972.2	76.0
0°-90°	2594.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	853	848	852	850	849	81
15°	820	817	824	826	826	231
25°	758	757	767	771	775	349
35°	669	672	687	696	702	418
45°	558	567	587	604	617	430
55°	428	444	475	508	524	382
65°	279	306	357	402	420	277
75°	130	170	232	253	244	139
85°	24	41	46	42	40	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	852.6	852.6	852.6	852.6	852.6
2.5°	855.9	850.3	853.7	852.6	849.2
5°	852.6	848.1	851.5	850.3	849.2
7.5°	848.1	843.7	847.0	845.9	845.9
10°	840.3	837.0	840.3	840.3	840.3
12.5°	831.4	828.1	832.6	833.7	834.8
15°	820.3	817.0	823.7	825.9	825.9
17.5°	807.0	804.8	811.4	813.7	815.9
20°	792.5	791.4	799.2	801.4	803.7
22.5°	775.9	775.9	783.6	785.9	790.3
25°	758.1	757.0	767.0	771.4	774.8
27.5°	738.1	738.1	749.2	754.7	758.1
30°	715.8	718.1	729.2	735.9	740.3
32.5°	693.6	695.8	709.2	717.0	722.5
35°	669.2	672.5	686.9	695.8	702.5
37.5°	642.5	648.0	663.6	673.6	681.4
40°	616.9	621.4	639.1	650.3	659.2
42.5°	588.0	595.8	613.6	626.9	636.9
45°	558.0	566.9	586.9	603.6	616.9
47.5°	526.9	538.0	559.1	581.3	594.7
50°	494.6	506.9	531.3	558.0	571.3
52.5°	462.4	475.7	502.4	533.5	548.0
55°	428.0	443.5	474.6	508.0	523.5
57.5°	392.4	410.2	445.7	483.5	499.1
60°	356.8	375.7	417.9	455.7	473.5
62.5°	320.1	341.2	386.8	430.2	446.8
65°	279.0	305.7	356.8	402.4	420.2
67.5°	241.2	269.0	327.9	373.5	392.4
70°	203.4	235.7	297.9	343.5	361.3
72.5°	165.6	203.4	264.6	311.2	321.2
75°	130.1	170.1	232.3	253.4	244.5
77.5°	95.6	140.1	195.6	184.5	182.3
80°	67.8	111.2	133.4	134.5	137.8
82.5°	43.4	82.3	86.7	87.8	88.9
85°	24.5	41.1	45.6	42.2	40.0
87.5°	11.1	13.3	11.1	7.8	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)