

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: P345039

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345039
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-30-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

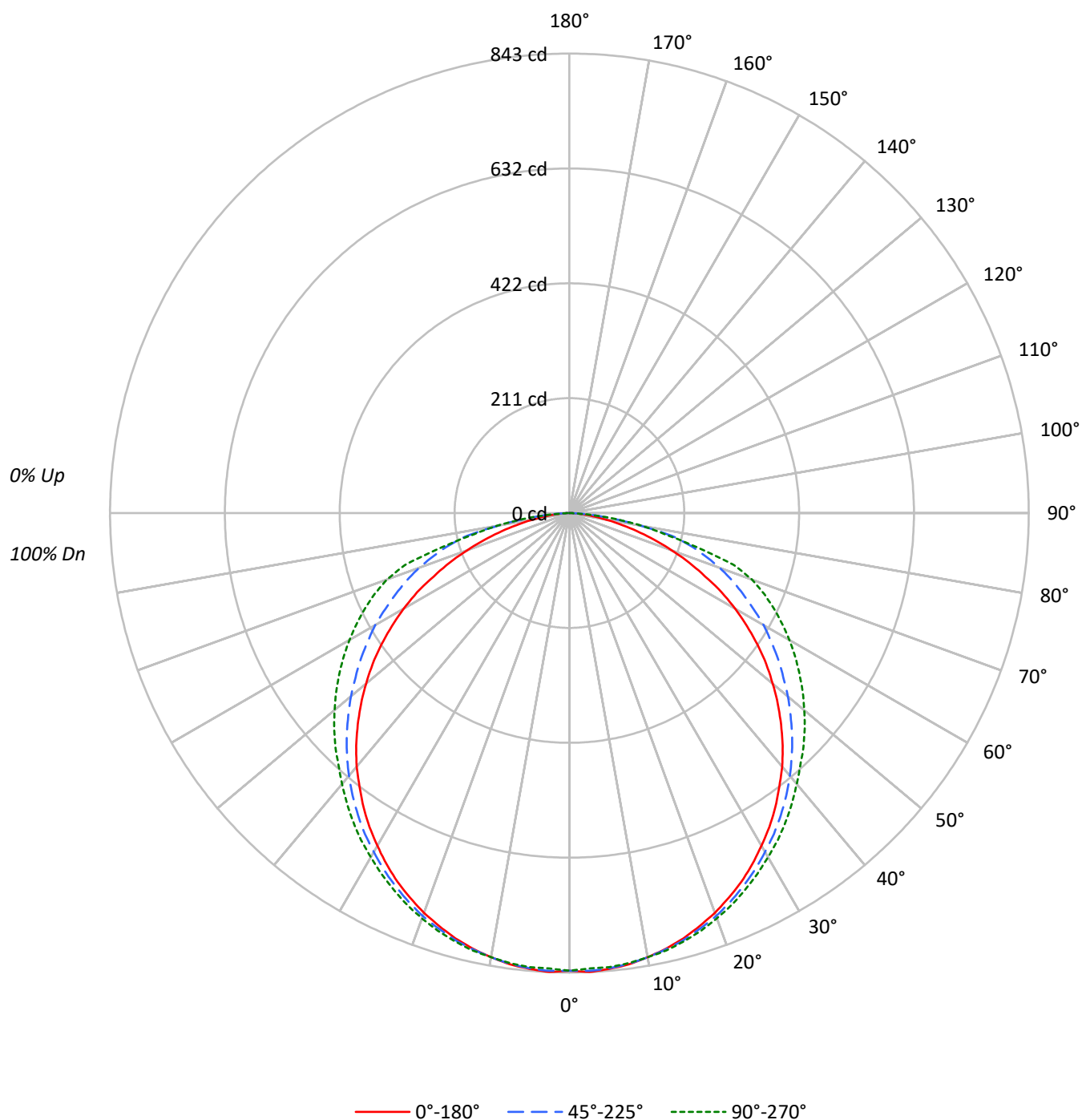
Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1130	1130	1130
5°	1134	1132	1129
10°	1130	1130	1130
15°	1125	1130	1133
20°	1117	1127	1133
25°	1108	1121	1132
30°	1095	1116	1132
35°	1082	1111	1136
40°	1067	1105	1140
45°	1045	1100	1156
50°	1019	1095	1178
55°	989	1096	1209
60°	945	1107	1255
65°	875	1118	1317
70°	788	1154	1399
75°	666	1189	1252
80°	518	1017	1051
85°	372	693	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.1
10°-20°	228.5	8.9
20°-30°	347.5	13.6
30°-40°	422.1	16.5
40°-50°	445.6	17.4
50°-60°	418.7	16.4
60°-70°	344.7	13.5
70°-80°	217.1	8.5
80°-90°	51.3	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°	655.5	25.7
0°-40°	1077.7	42.2
0°-60°	1941.9	76.0
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	840	835	838	837	836	80
15°	808	804	811	813	813	228
25°	746	745	755	760	763	344
35°	659	662	676	685	692	412
45°	549	558	578	594	607	424
55°	421	437	467	500	516	376
65°	275	301	351	396	414	273
75°	128	168	229	250	241	137
85°	24	40	45	42	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.5	839.5	839.5	839.5	839.5
2.5°	842.7	837.3	840.6	839.5	836.2
5°	839.5	835.1	838.4	837.3	836.2
7.5°	835.1	830.7	834.0	832.9	832.9
10°	827.4	824.1	827.4	827.4	827.4
12.5°	818.7	815.4	819.8	820.9	821.9
15°	807.7	804.4	811.0	813.2	813.2
17.5°	794.6	792.4	799.0	801.2	803.3
20°	780.4	779.3	786.9	789.1	791.3
22.5°	763.9	763.9	771.6	773.8	778.2
25°	746.4	745.3	755.2	759.6	762.8
27.5°	726.7	726.7	737.7	743.1	746.4
30°	704.8	707.0	718.0	724.5	728.9
32.5°	682.9	685.1	698.3	705.9	711.4
35°	658.9	662.2	676.4	685.1	691.7
37.5°	632.6	638.1	653.4	663.2	670.9
40°	607.4	611.8	629.3	640.3	649.0
42.5°	579.0	586.6	604.1	617.3	627.1
45°	549.4	558.2	577.9	594.3	607.4
47.5°	518.8	529.7	550.5	572.4	585.5
50°	487.0	499.1	523.2	549.4	562.6
52.5°	455.3	468.4	494.7	525.3	539.6
55°	421.4	436.7	467.3	500.2	515.5
57.5°	386.3	403.9	438.9	476.1	491.4
60°	351.3	369.9	411.5	448.7	466.2
62.5°	315.2	336.0	380.9	423.6	440.0
65°	274.7	301.0	351.3	396.2	413.7
67.5°	237.5	264.9	322.9	367.7	386.3
70°	200.3	232.0	293.3	338.2	355.7
72.5°	163.1	200.3	260.5	306.5	316.3
75°	128.1	167.5	228.7	249.5	240.8
77.5°	94.1	137.9	192.6	181.7	179.5
80°	66.8	109.4	131.3	132.4	135.7
82.5°	42.7	81.0	85.4	86.5	87.6
85°	24.1	40.5	44.9	41.6	39.4
87.5°	10.9	13.1	10.9	7.7	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)