

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: P345041

Luminaire Tested: **24CZ-30-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345041
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-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

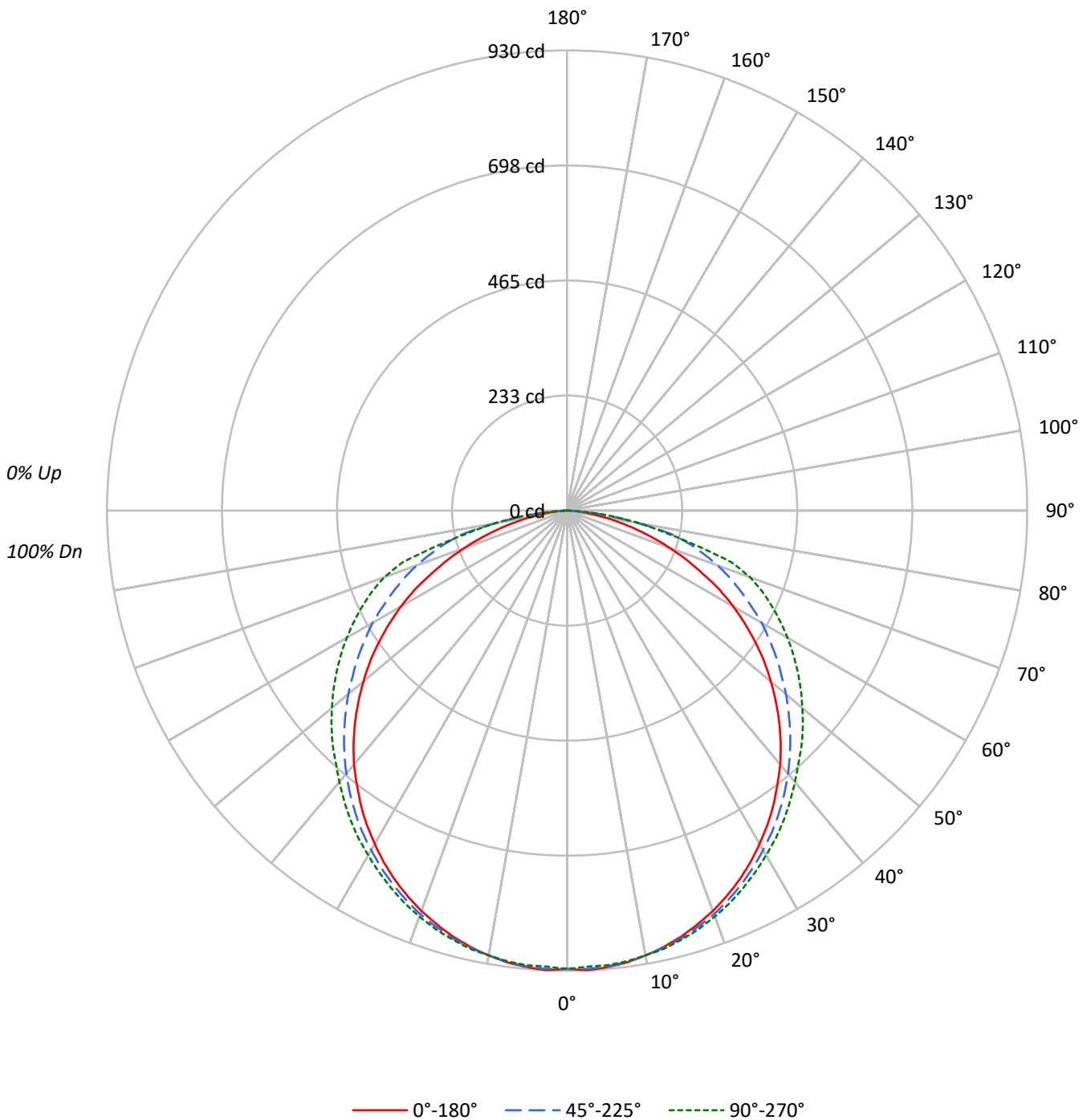
Lumens per Lamp: N/A
Luminaire Lumens: 2819.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1246	1246	1246
5°	1251	1249	1246
10°	1247	1247	1247
15°	1241	1246	1250
20°	1233	1243	1250
25°	1223	1237	1250
30°	1208	1231	1249
35°	1194	1226	1254
40°	1177	1219	1258
45°	1153	1213	1275
50°	1125	1208	1299
55°	1091	1209	1334
60°	1043	1222	1384
65°	965	1234	1453
70°	869	1273	1544
75°	735	1312	1381
80°	571	1123	1160
85°	411	764	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.1
10°-20°	252.1	8.9
20°-30°	383.4	13.6
30°-40°	465.8	16.5
40°-50°	491.6	17.4
50°-60°	461.9	16.4
60°-70°	380.3	13.5
70°-80°	239.6	8.5
80°-90°	56.6	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°	723.2	25.7
0°-40°	1189.0	42.2
0°-60°	2142.5	76.0
0°-90°	2819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	926	921	925	924	923	88
15°	891	888	895	897	897	251
25°	824	822	833	838	842	379
35°	727	731	746	756	763	454
45°	606	616	638	656	670	467
55°	465	482	516	552	569	415
65°	303	332	388	437	456	301
75°	141	185	252	275	266	151
85°	27	45	50	46	44	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.2	926.2	926.2	926.2	926.2
2.5°	929.8	923.8	927.4	926.2	922.6
5°	926.2	921.4	925.0	923.8	922.6
7.5°	921.4	916.5	920.2	918.9	918.9
10°	912.9	909.3	912.9	912.9	912.9
12.5°	903.3	899.6	904.5	905.7	906.9
15°	891.2	887.6	894.8	897.2	897.2
17.5°	876.7	874.3	881.5	883.9	886.3
20°	861.0	859.8	868.2	870.6	873.1
22.5°	842.9	842.9	851.3	853.7	858.6
25°	823.6	822.3	833.2	838.0	841.7
27.5°	801.8	801.8	813.9	819.9	823.6
30°	777.7	780.1	792.2	799.4	804.2
32.5°	753.5	755.9	770.4	778.9	784.9
35°	726.9	730.6	746.3	755.9	763.2
37.5°	698.0	704.0	720.9	731.8	740.2
40°	670.2	675.0	694.3	706.4	716.1
42.5°	638.8	647.2	666.6	681.1	691.9
45°	606.2	615.9	637.6	655.7	670.2
47.5°	572.4	584.5	607.4	631.6	646.0
50°	537.4	550.6	577.2	606.2	620.7
52.5°	502.3	516.8	545.8	579.6	595.3
55°	464.9	481.8	515.6	551.9	568.8
57.5°	426.3	445.6	484.2	525.3	542.2
60°	387.6	408.2	454.0	495.1	514.4
62.5°	347.8	370.7	420.2	467.3	485.4
65°	303.1	332.1	387.6	437.1	456.5
67.5°	262.0	292.2	356.2	405.7	426.3
70°	221.0	256.0	323.6	373.1	392.5
72.5°	179.9	221.0	287.4	338.1	349.0
75°	141.3	184.8	252.4	275.3	265.7
77.5°	103.8	152.2	212.5	200.5	198.0
80°	73.7	120.8	144.9	146.1	149.7
82.5°	47.1	89.4	94.2	95.4	96.6
85°	26.6	44.7	49.5	45.9	43.5
87.5°	12.1	14.5	12.1	8.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)