

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: P345119

Luminaire Tested: **22CZ-29-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345119
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-29-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2560.6 lumens
Efficiency: N/A
Efficacy: 109.0 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

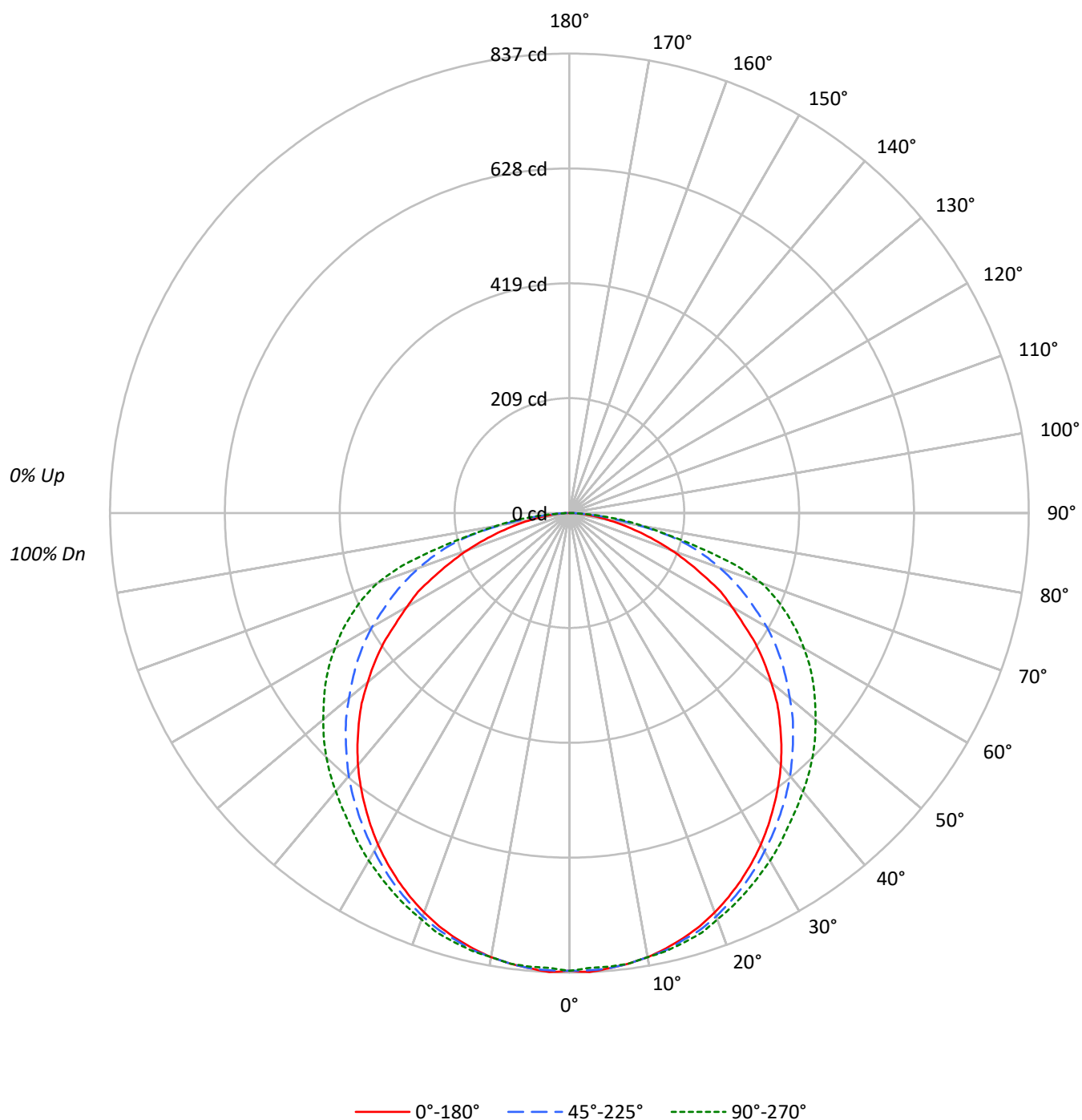
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	73			80	76	72			77
3	89	78	69	63	86	76	68	62		73	67	61			71	65	60			68
4	81	69	60	53	79	67	59	52		65	57	52			63	56	51			60
5	75	61	52	45	72	60	51	45		58	50	44			56	49	44			54
6	69	55	46	39	67	54	45	39		52	44	39			50	44	38			49
7	64	50	41	34	62	49	40	34		47	40	34			46	39	34			45
8	59	45	37	31	58	45	36	31		43	36	30			42	35	30			41
9	55	42	33	28	54	41	33	27		40	32	27			39	32	27			38
10	52	38	30	25	50	38	30	25		37	30	25			36	29	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2244	2244	2244
5°	2248	2248	2240
10°	2245	2245	2245
15°	2233	2242	2255
20°	2216	2239	2256
25°	2194	2225	2262
30°	2167	2210	2272
35°	2135	2200	2286
40°	2105	2197	2326
45°	2065	2193	2386
50°	2008	2195	2451
55°	1941	2215	2546
60°	1840	2236	2656
65°	1718	2255	2791
70°	1555	2291	2930
75°	1338	2327	2566
80°	1093	1948	2114
85°	898	1420	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.1
10°-20°	227.3	8.9
20°-30°	345.6	13.5
30°-40°	420.5	16.4
40°-50°	447.9	17.5
50°-60°	423.7	16.5
60°-70°	349.2	13.6
70°-80°	214.8	8.4
80°-90°	52.4	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°	652.0	25.5
0°-40°	1072.5	41.9
0°-60°	1944.1	75.9
0°-90°	2560.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	832	832	832	831	829	79
15°	802	803	805	808	809	226
25°	739	742	750	757	762	340
35°	650	656	670	687	696	407
45°	543	552	576	608	627	418
55°	414	429	472	518	543	368
65°	270	296	354	411	438	268
75°	129	164	224	244	247	138
85°	29	38	46	49	51	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.8	833.8	833.8	833.8	833.8
2.5°	836.9	835.3	833.8	830.7	829.2
5°	832.3	832.3	832.3	830.7	829.2
7.5°	827.7	827.7	827.7	827.7	827.7
10°	821.5	821.5	821.5	821.5	821.5
12.5°	812.3	813.9	815.4	815.4	816.9
15°	801.6	803.1	804.7	807.7	809.3
17.5°	789.3	790.9	795.5	798.5	801.6
20°	774.0	775.5	781.7	784.7	787.8
22.5°	757.2	760.2	766.3	772.5	775.5
25°	738.8	741.8	749.5	757.2	761.7
27.5°	718.8	721.9	731.1	741.8	746.4
30°	697.4	700.4	711.2	723.4	731.1
32.5°	674.4	679.0	691.2	706.6	714.2
35°	649.9	656.0	669.8	686.6	695.8
37.5°	625.3	631.5	648.3	668.3	679.0
40°	599.3	606.9	625.3	648.3	662.1
42.5°	571.7	580.9	600.8	628.4	645.3
45°	542.6	551.8	576.3	608.5	626.9
47.5°	513.5	524.2	551.8	587.0	606.9
50°	479.7	492.0	524.2	565.6	585.5
52.5°	447.5	462.9	498.1	542.6	564.0
55°	413.8	429.2	472.1	518.1	542.6
57.5°	375.5	393.9	444.5	493.5	519.6
60°	341.8	360.2	415.4	467.5	493.5
62.5°	311.1	328.0	383.2	439.9	467.5
65°	269.8	295.8	354.1	410.8	438.4
67.5°	233.0	262.1	323.4	377.0	407.7
70°	197.7	228.4	291.2	343.3	372.4
72.5°	162.5	196.2	259.0	305.0	320.3
75°	128.7	164.0	223.8	243.7	246.8
77.5°	98.1	133.3	180.9	179.3	182.4
80°	70.5	101.2	125.7	130.3	136.4
82.5°	47.5	70.5	81.2	88.9	95.0
85°	29.1	38.3	46.0	49.0	50.6
87.5°	13.8	15.3	15.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)