

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: P345120

Luminaire Tested: **22CZ-29-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345120
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-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2611.8 lumens
Efficiency: N/A
Efficacy: 111.1 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

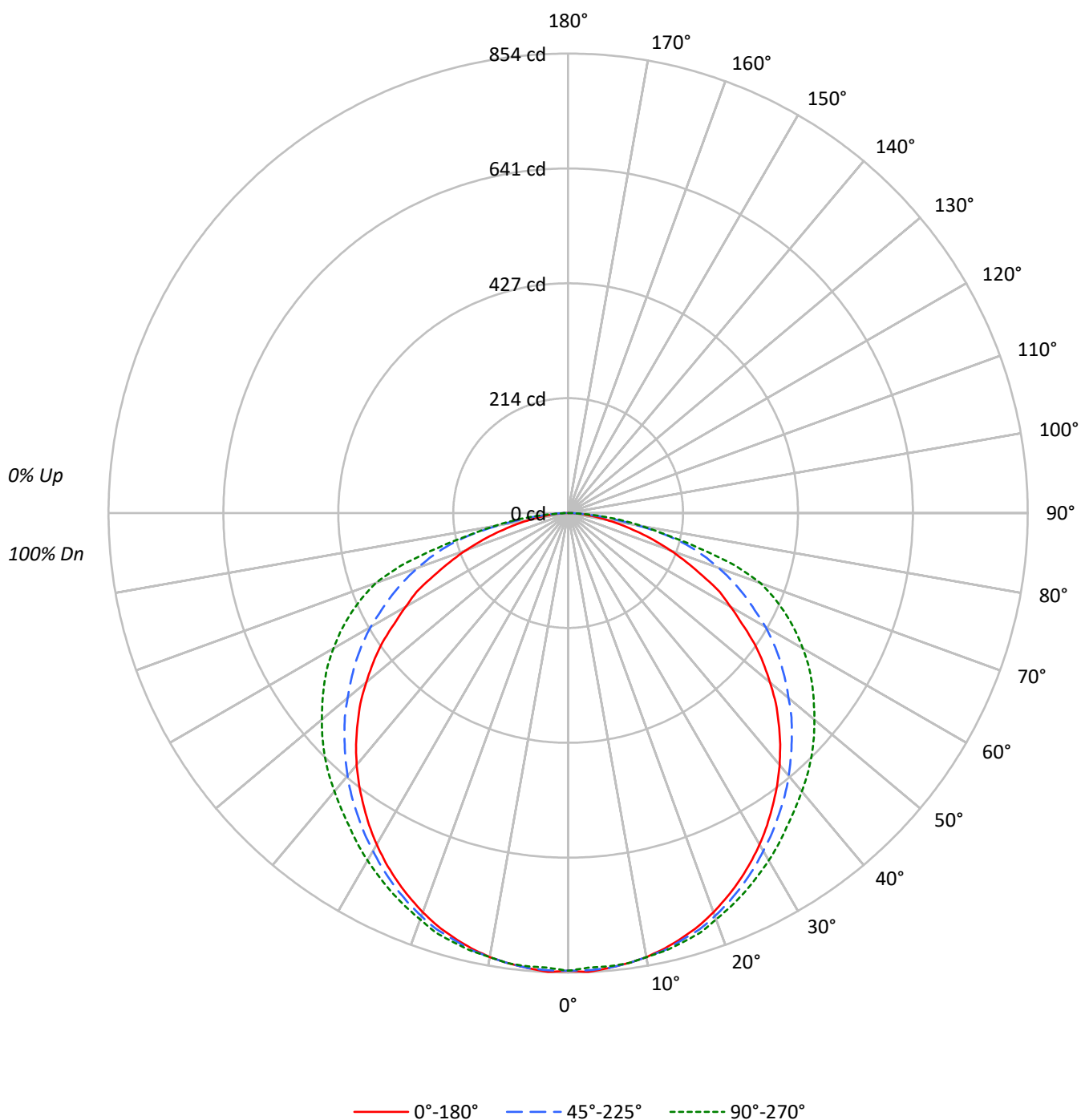
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2293	2293	2285
10°	2290	2290	2290
15°	2278	2287	2300
20°	2261	2283	2301
25°	2237	2270	2307
30°	2210	2254	2317
35°	2178	2244	2332
40°	2147	2240	2373
45°	2106	2237	2433
50°	2048	2238	2500
55°	1980	2259	2596
60°	1876	2280	2709
65°	1752	2299	2847
70°	1587	2337	2989
75°	1365	2374	2617
80°	1114	1987	2156
85°	917	1448	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.1
10°-20°	231.9	8.9
20°-30°	352.5	13.5
30°-40°	428.9	16.4
40°-50°	456.9	17.5
50°-60°	432.2	16.5
60°-70°	356.2	13.6
70°-80°	219.1	8.4
80°-90°	53.5	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°	665.0	25.5
0°-40°	1093.9	41.9
0°-60°	1983.0	75.9
0°-90°	2611.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	849	849	849	847	846	81
15°	818	819	821	824	826	231
25°	754	757	764	772	777	347
35°	663	669	683	700	710	415
45°	553	563	588	621	639	427
55°	422	438	482	528	553	376
65°	275	302	361	419	447	273
75°	131	167	228	249	252	141
85°	30	39	47	50	52	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.5	850.5	850.5	850.5	850.5
2.5°	853.6	852.0	850.5	847.3	845.8
5°	848.9	848.9	848.9	847.3	845.8
7.5°	844.2	844.2	844.2	844.2	844.2
10°	838.0	838.0	838.0	838.0	838.0
12.5°	828.6	830.1	831.7	831.7	833.3
15°	817.6	819.2	820.8	823.9	825.5
17.5°	805.1	806.7	811.4	814.5	817.6
20°	789.5	791.1	797.3	800.4	803.6
22.5°	772.3	775.4	781.7	787.9	791.1
25°	753.5	756.7	764.5	772.3	777.0
27.5°	733.2	736.3	745.7	756.7	761.4
30°	711.3	714.5	725.4	737.9	745.7
32.5°	687.9	692.6	705.1	720.7	728.5
35°	662.9	669.1	683.2	700.4	709.8
37.5°	637.8	644.1	661.3	681.6	692.6
40°	611.3	619.1	637.8	661.3	675.4
42.5°	583.1	592.5	612.8	641.0	658.2
45°	553.4	562.8	587.8	620.7	639.4
47.5°	523.7	534.7	562.8	598.8	619.1
50°	489.3	501.8	534.7	576.9	597.2
52.5°	456.5	472.1	508.1	553.4	575.3
55°	422.1	437.7	481.5	528.4	553.4
57.5°	383.0	401.8	453.4	503.4	530.0
60°	348.6	367.4	423.7	476.8	503.4
62.5°	317.4	334.6	390.8	448.7	476.8
65°	275.2	301.7	361.1	419.0	447.1
67.5°	237.6	267.3	329.9	384.6	415.9
70°	201.7	232.9	297.0	350.2	379.9
72.5°	165.7	200.1	264.2	311.1	326.7
75°	131.3	167.3	228.3	248.6	251.7
77.5°	100.1	136.0	184.5	182.9	186.0
80°	71.9	103.2	128.2	132.9	139.1
82.5°	48.5	71.9	82.9	90.7	96.9
85°	29.7	39.1	46.9	50.0	51.6
87.5°	14.1	15.6	15.6	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)