

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: P#

Luminaire Tested: **22CZ-LD5-20SE-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1322.1 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

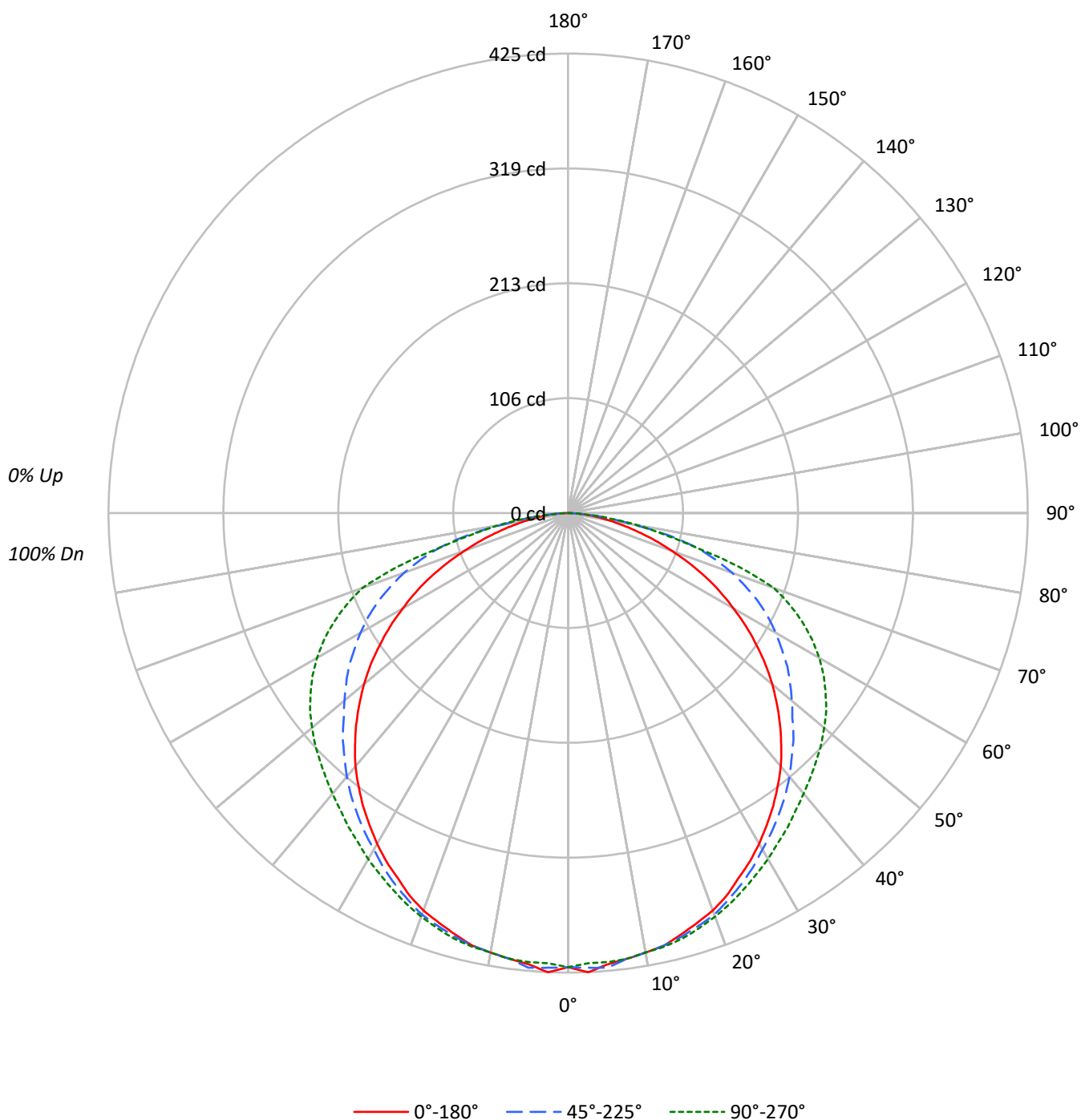
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
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	73	80	76	71	77	73	70	68		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56		
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47		
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31		
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28		
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25		
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1130	1130	1130
5°	1127	1133	1121
10°	1118	1114	1118
15°	1109	1109	1121
20°	1100	1104	1117
25°	1081	1089	1114
30°	1067	1073	1116
35°	1049	1064	1124
40°	1032	1056	1142
45°	1005	1047	1176
50°	974	1042	1221
55°	931	1054	1273
60°	875	1063	1327
65°	809	1073	1376
70°	703	1062	1399
75°	584	1005	1062
80°	459	670	793
85°	322	350	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.0
10°-20°	114.5	8.7
20°-30°	174.5	13.2
30°-40°	213.5	16.1
40°-50°	229.7	17.4
50°-60°	222.5	16.8
60°-70°	188.5	14.3
70°-80°	113.9	8.6
80°-90°	25.0	1.9
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°	328.9	24.9
0°-40°	542.4	41.0
0°-60°	994.6	75.2
0°-90°	1322.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	419	419	422	420	417	40
15°	404	404	406	407	408	114
25°	373	375	379	382	384	172
35°	331	333	340	349	354	207
45°	277	282	295	313	324	214
55°	212	222	247	276	291	190
65°	141	156	194	225	239	139
75°	67	90	122	124	121	72
85°	16	20	20	20	18	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	419.9	419.9	419.9	419.9	419.9
2.5°	425.1	424.0	421.0	418.9	416.8
5°	418.9	418.9	422.0	419.9	416.8
7.5°	415.8	415.8	415.8	421.0	415.8
10°	412.7	413.8	412.7	416.8	412.7
12.5°	409.7	409.7	409.7	410.7	410.7
15°	403.5	404.5	405.5	406.6	407.6
17.5°	397.3	398.4	400.4	401.4	402.5
20°	391.2	392.2	395.3	395.3	397.3
22.5°	383.0	383.0	387.1	388.1	391.2
25°	372.7	374.7	378.9	381.9	384.0
27.5°	363.5	365.5	369.6	373.7	376.8
30°	353.2	355.2	359.3	365.5	369.6
32.5°	341.9	343.9	350.1	357.3	361.4
35°	330.6	332.7	339.8	349.1	354.2
37.5°	318.3	321.4	329.6	339.8	346.0
40°	306.0	309.0	318.3	329.6	338.8
42.5°	291.6	295.7	306.0	321.4	331.6
45°	277.2	282.3	294.7	313.1	324.4
47.5°	261.8	266.9	281.3	304.9	317.3
50°	246.4	252.6	270.0	295.7	309.0
52.5°	230.0	236.1	258.7	286.5	300.8
55°	212.5	221.8	247.4	276.2	290.6
57.5°	195.1	205.3	234.1	264.9	280.3
60°	176.6	188.9	221.8	252.6	268.0
62.5°	159.1	172.5	208.4	239.2	254.6
65°	140.7	156.1	194.0	224.8	239.2
67.5°	121.2	140.7	177.6	207.4	221.8
70°	101.6	124.2	161.2	188.9	202.3
72.5°	84.2	107.8	142.7	166.3	166.3
75°	66.7	90.4	122.2	124.2	121.2
77.5°	51.3	73.9	95.5	87.3	89.3
80°	38.0	56.5	60.6	63.7	65.7
82.5°	25.7	38.0	39.0	41.1	41.1
85°	16.4	19.5	20.5	19.5	18.5
87.5°	7.2	8.2	6.2	4.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)