

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-L835-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-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1296.1 lumens
Efficiency: N/A
Efficacy: 75.4 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

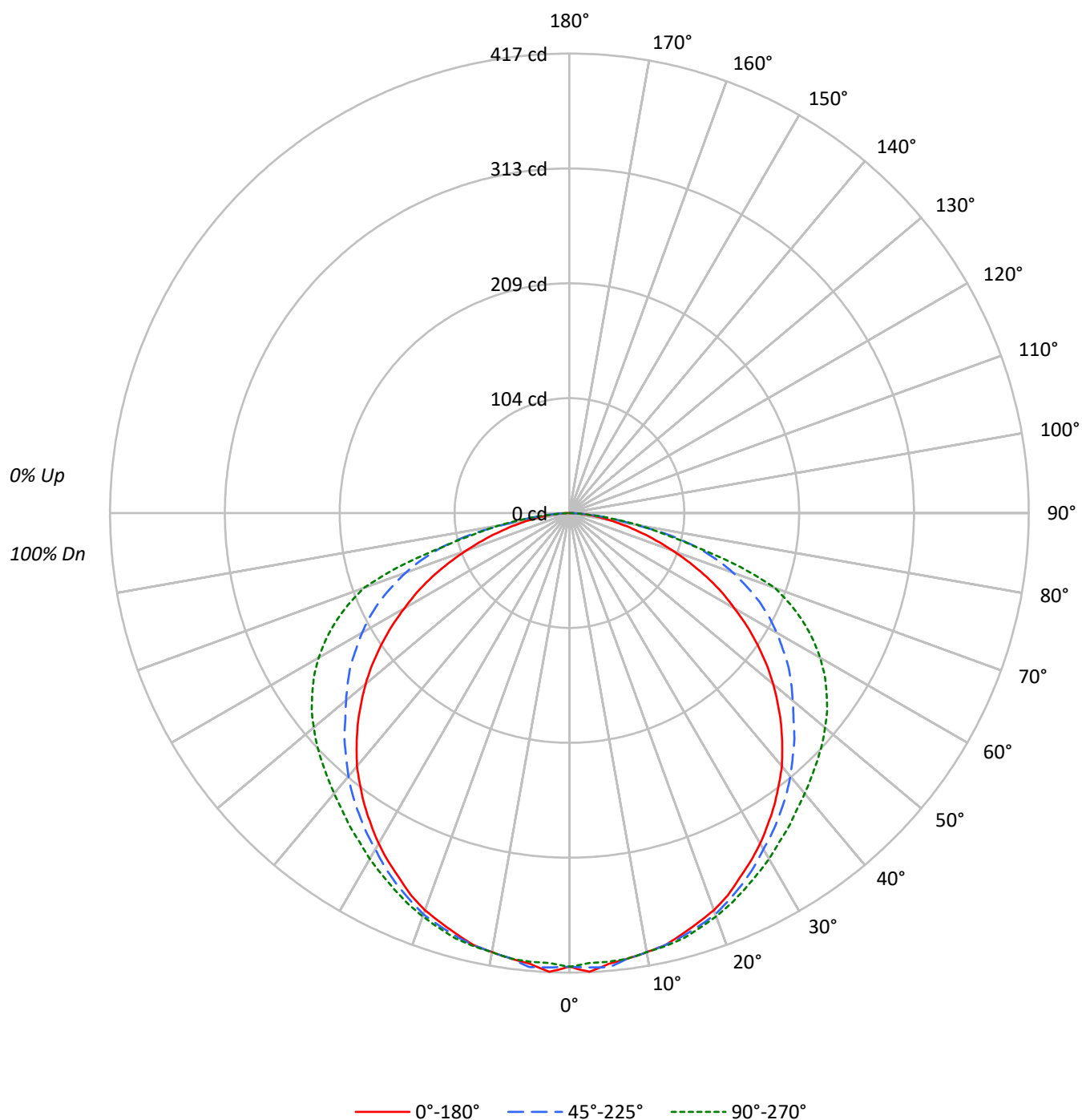
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	1108	1108	1108
5°	1105	1111	1099
10°	1096	1092	1096
15°	1088	1087	1099
20°	1079	1082	1095
25°	1060	1068	1092
30°	1046	1052	1094
35°	1029	1043	1102
40°	1011	1035	1120
45°	985	1027	1153
50°	955	1022	1197
55°	913	1034	1248
60°	857	1042	1301
65°	793	1052	1349
70°	690	1041	1372
75°	573	986	1041
80°	449	657	778
85°	316	343	356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	3.0
10°-20°	112.3	8.7
20°-30°	171.1	13.2
30°-40°	209.3	16.1
40°-50°	225.2	17.4
50°-60°	218.2	16.8
60°-70°	184.8	14.3
70°-80°	111.7	8.6
80°-90°	24.5	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°	322.4	24.9
0°-40°	531.7	41.0
0°-60°	975.1	75.2
0°-90°	1296.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1296.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	411	411	414	412	409	39
15°	396	397	398	399	400	112
25°	365	367	371	374	376	169
35°	324	326	333	342	347	203
45°	272	277	289	307	318	209
55°	208	217	243	271	285	186
65°	138	153	190	220	234	136
75°	65	89	120	122	119	70
85°	16	19	20	19	18	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.7	411.7	411.7	411.7	411.7
2.5°	416.7	415.7	412.7	410.7	408.7
5°	410.7	410.7	413.7	411.7	408.7
7.5°	407.7	407.7	407.7	412.7	407.7
10°	404.6	405.7	404.6	408.7	404.6
12.5°	401.6	401.6	401.6	402.6	402.6
15°	395.6	396.6	397.6	398.6	399.6
17.5°	389.5	390.6	392.6	393.6	394.6
20°	383.5	384.5	387.5	387.5	389.5
22.5°	375.5	375.5	379.5	380.5	383.5
25°	365.4	367.4	371.4	374.4	376.5
27.5°	356.3	358.3	362.4	366.4	369.4
30°	346.3	348.3	352.3	358.3	362.4
32.5°	335.2	337.2	343.2	350.3	354.3
35°	324.1	326.1	333.2	342.2	347.3
37.5°	312.0	315.1	323.1	333.2	339.2
40°	300.0	303.0	312.0	323.1	332.2
42.5°	285.9	289.9	300.0	315.1	325.1
45°	271.8	276.8	288.9	307.0	318.1
47.5°	256.7	261.7	275.8	299.0	311.0
50°	241.6	247.6	264.7	289.9	303.0
52.5°	225.5	231.5	253.7	280.8	294.9
55°	208.4	217.4	242.6	270.8	284.9
57.5°	191.2	201.3	229.5	259.7	274.8
60°	173.1	185.2	217.4	247.6	262.7
62.5°	156.0	169.1	204.3	234.5	249.6
65°	137.9	153.0	190.2	220.4	234.5
67.5°	118.8	137.9	174.1	203.3	217.4
70°	99.7	121.8	158.0	185.2	198.3
72.5°	82.5	105.7	139.9	163.1	163.1
75°	65.4	88.6	119.8	121.8	118.8
77.5°	50.3	72.5	93.6	85.6	87.6
80°	37.2	55.4	59.4	62.4	64.4
82.5°	25.2	37.2	38.2	40.3	40.3
85°	16.1	19.1	20.1	19.1	18.1
87.5°	7.0	8.1	6.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)