

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-LD5-39-RDP-UNV-L850-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-LD5-39-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2717.8 lumens
Efficiency: N/A
Efficacy: 74.6 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

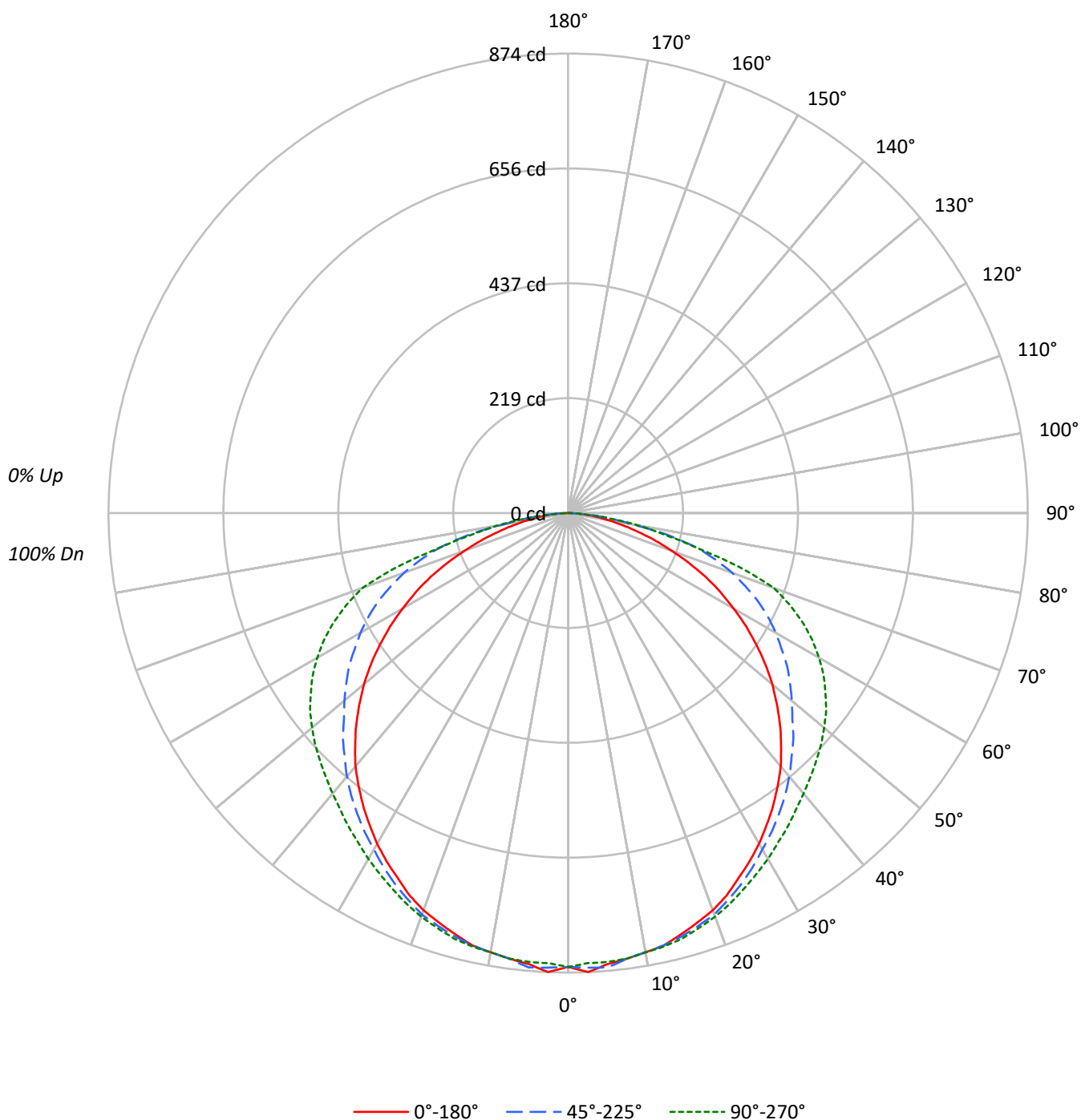
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2323	2323	2323
5°	2316	2329	2305
10°	2298	2290	2298
15°	2280	2279	2303
20°	2262	2269	2297
25°	2223	2239	2290
30°	2193	2205	2295
35°	2157	2187	2311
40°	2121	2170	2348
45°	2066	2153	2417
50°	2001	2143	2510
55°	1913	2168	2616
60°	1798	2186	2729
65°	1663	2206	2828
70°	1446	2183	2876
75°	1202	2066	2183
80°	943	1377	1631
85°	664	721	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.0
10°-20°	235.4	8.7
20°-30°	358.7	13.2
30°-40°	438.9	16.1
40°-50°	472.2	17.4
50°-60°	457.4	16.8
60°-70°	387.5	14.3
70°-80°	234.2	8.6
80°-90°	51.5	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°	676.0	24.9
0°-40°	1114.9	41.0
0°-60°	2044.6	75.2
0°-90°	2717.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2717.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	861	861	868	863	857	82
15°	830	832	834	836	838	234
25°	766	770	779	785	789	354
35°	680	684	699	718	728	425
45°	570	580	606	644	667	439
55°	437	456	509	568	597	390
65°	289	321	399	462	492	285
75°	137	186	251	255	249	147
85°	34	40	42	40	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.2	863.2	863.2	863.2	863.2
2.5°	873.8	871.7	865.4	861.1	856.9
5°	861.1	861.1	867.5	863.2	856.9
7.5°	854.8	854.8	854.8	865.4	854.8
10°	848.5	850.6	848.5	856.9	848.5
12.5°	842.1	842.1	842.1	844.2	844.2
15°	829.5	831.6	833.7	835.8	837.9
17.5°	816.8	818.9	823.1	825.3	827.4
20°	804.1	806.3	812.6	812.6	816.8
22.5°	787.3	787.3	795.7	797.8	804.1
25°	766.2	770.4	778.8	785.2	789.4
27.5°	747.2	751.4	759.8	768.3	774.6
30°	726.1	730.3	738.7	751.4	759.8
32.5°	702.8	707.1	719.7	734.5	742.9
35°	679.6	683.8	698.6	717.6	728.2
37.5°	654.3	660.6	677.5	698.6	711.3
40°	629.0	635.3	654.3	677.5	696.5
42.5°	599.4	607.9	629.0	660.6	681.7
45°	569.9	580.4	605.7	643.7	667.0
47.5°	538.2	548.8	578.3	626.9	652.2
50°	506.5	519.2	555.1	607.9	635.3
52.5°	472.8	485.4	531.9	588.9	618.4
55°	436.9	455.9	508.7	567.8	597.3
57.5°	401.0	422.1	481.2	544.5	576.2
60°	363.0	388.4	455.9	519.2	550.9
62.5°	327.1	354.6	428.5	491.8	523.4
65°	289.2	320.8	398.9	462.2	491.8
67.5°	249.1	289.2	365.1	426.3	455.9
70°	209.0	255.4	331.4	388.4	415.8
72.5°	173.1	221.6	293.4	341.9	341.9
75°	137.2	185.7	251.2	255.4	249.1
77.5°	105.5	152.0	196.3	179.4	183.6
80°	78.1	116.1	124.5	130.9	135.1
82.5°	52.8	78.1	80.2	84.4	84.4
85°	33.8	40.1	42.2	40.1	38.0
87.5°	14.8	16.9	12.7	8.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)