

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-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-LD5-39-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.5 lumens
Efficiency: N/A
Efficacy: 69.0 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

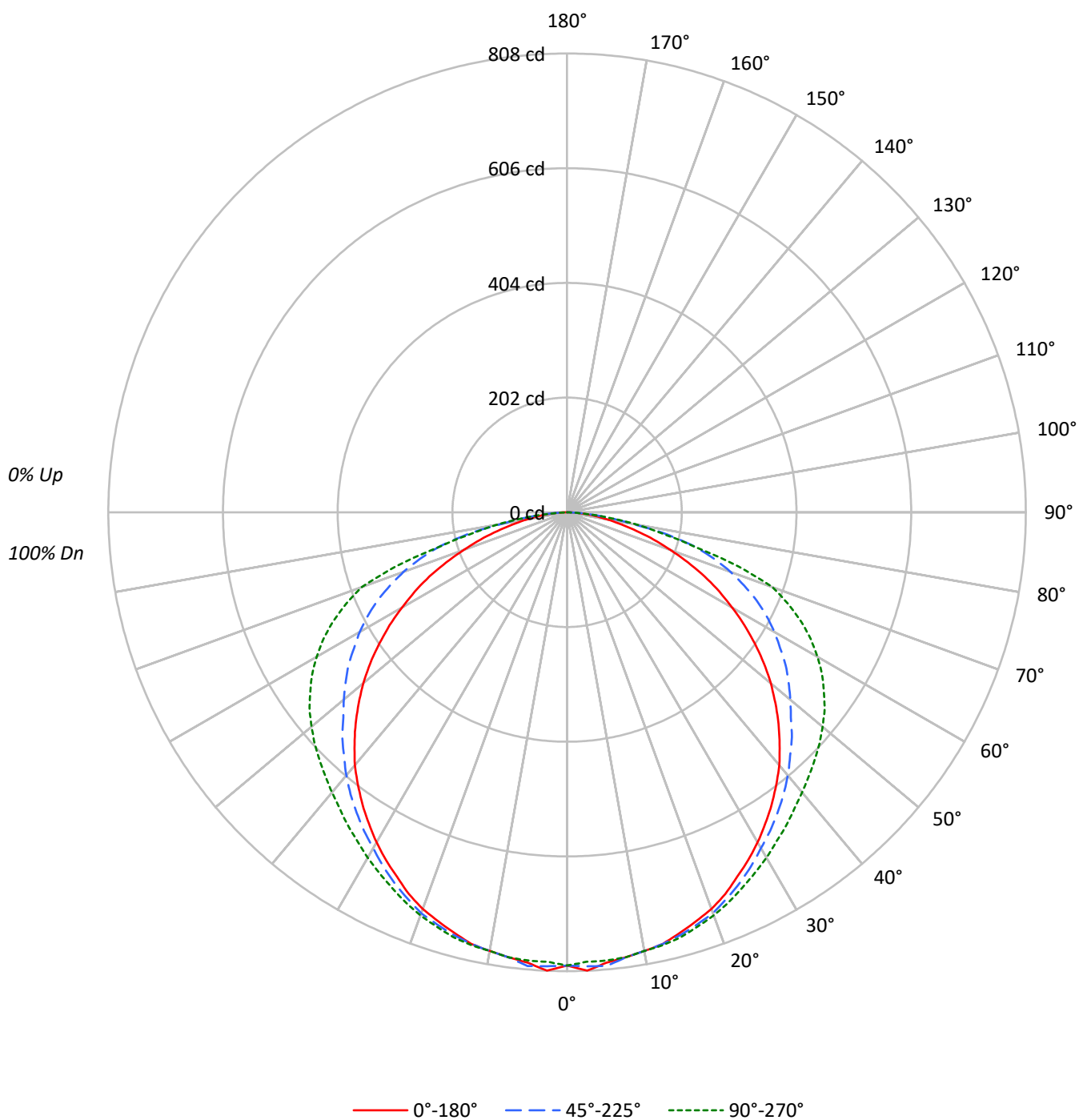
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2147	2147	2147
5°	2141	2153	2131
10°	2125	2117	2125
15°	2108	2107	2129
20°	2091	2097	2124
25°	2055	2070	2117
30°	2027	2039	2121
35°	1994	2021	2137
40°	1960	2006	2171
45°	1909	1990	2235
50°	1850	1981	2320
55°	1769	2004	2418
60°	1662	2021	2523
65°	1537	2039	2614
70°	1336	2018	2659
75°	1111	1910	2017
80°	872	1273	1508
85°	613	666	690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.0
10°-20°	217.6	8.7
20°-30°	331.6	13.2
30°-40°	405.7	16.1
40°-50°	436.6	17.4
50°-60°	422.9	16.8
60°-70°	358.2	14.3
70°-80°	216.5	8.6
80°-90°	47.6	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°	625.0	24.9
0°-40°	1030.7	41.0
0°-60°	1890.2	75.2
0°-90°	2512.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	796	796	802	798	792	76
15°	767	769	771	773	775	217
25°	708	712	720	726	730	327
35°	628	632	646	663	673	393
45°	527	537	560	595	617	406
55°	404	422	470	525	552	361
65°	267	297	369	427	455	263
75°	127	172	232	236	230	136
85°	31	37	39	37	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.0	798.0	798.0	798.0	798.0
2.5°	807.8	805.8	800.0	796.1	792.2
5°	796.1	796.1	801.9	798.0	792.2
7.5°	790.2	790.2	790.2	800.0	790.2
10°	784.4	786.3	784.4	792.2	784.4
12.5°	778.5	778.5	778.5	780.5	780.5
15°	766.8	768.8	770.7	772.7	774.6
17.5°	755.1	757.1	761.0	762.9	764.9
20°	743.4	745.4	751.2	751.2	755.1
22.5°	727.8	727.8	735.6	737.6	743.4
25°	708.3	712.2	720.0	725.8	729.7
27.5°	690.7	694.6	702.4	710.2	716.1
30°	671.2	675.1	682.9	694.6	702.4
32.5°	649.7	653.6	665.4	679.0	686.8
35°	628.3	632.2	645.8	663.4	673.2
37.5°	604.9	610.7	626.3	645.8	657.6
40°	581.5	587.3	604.9	626.3	643.9
42.5°	554.1	561.9	581.5	610.7	630.2
45°	526.8	536.6	560.0	595.1	616.6
47.5°	497.6	507.3	534.6	579.5	602.9
50°	468.3	480.0	513.2	561.9	587.3
52.5°	437.1	448.8	491.7	544.4	571.7
55°	403.9	421.5	470.2	524.9	552.2
57.5°	370.7	390.2	444.9	503.4	532.7
60°	335.6	359.0	421.5	480.0	509.3
62.5°	302.4	327.8	396.1	454.6	483.9
65°	267.3	296.6	368.8	427.3	454.6
67.5°	230.2	267.3	337.6	394.1	421.5
70°	193.2	236.1	306.3	359.0	384.4
72.5°	160.0	204.9	271.2	316.1	316.1
75°	126.8	171.7	232.2	236.1	230.2
77.5°	97.6	140.5	181.5	165.9	169.8
80°	72.2	107.3	115.1	121.0	124.9
82.5°	48.8	72.2	74.1	78.0	78.0
85°	31.2	37.1	39.0	37.1	35.1
87.5°	13.7	15.6	11.7	7.8	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)