

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-LD5-39SE-SQP-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-LD5-39SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2980.3 lumens
Efficiency: N/A
Efficacy: 85.4 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

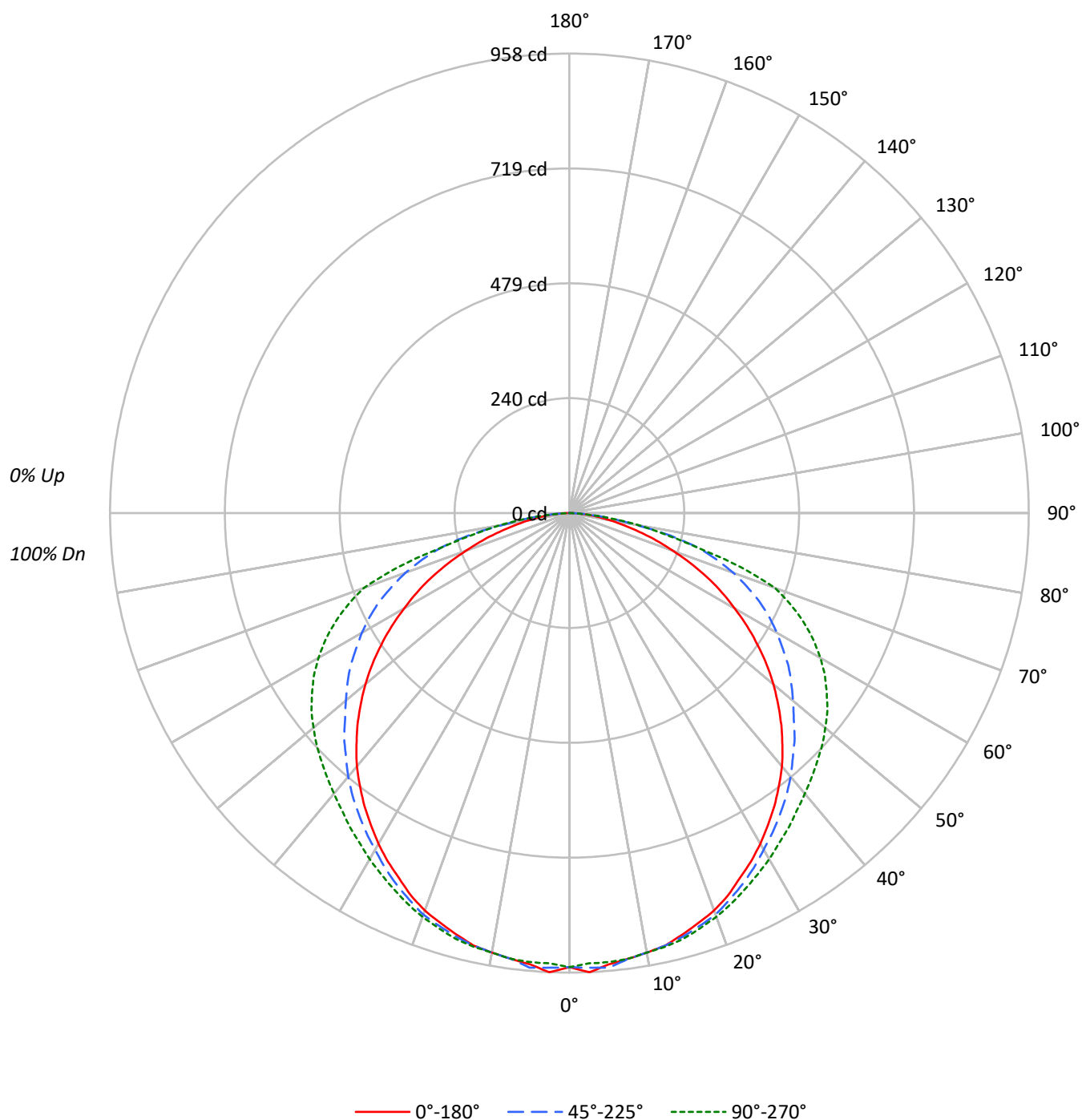
Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2547	2547	2547
5°	2540	2554	2527
10°	2520	2511	2520
15°	2501	2500	2526
20°	2480	2488	2519
25°	2438	2455	2512
30°	2405	2418	2516
35°	2366	2398	2534
40°	2325	2379	2575
45°	2265	2361	2651
50°	2195	2350	2753
55°	2098	2377	2868
60°	1972	2397	2992
65°	1824	2418	3101
70°	1585	2394	3154
75°	1318	2266	2393
80°	1033	1511	1788
85°	727	791	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	258.1	8.7
20°-30°	393.3	13.2
30°-40°	481.3	16.1
40°-50°	517.9	17.4
50°-60°	501.6	16.8
60°-70°	424.9	14.3
70°-80°	256.8	8.6
80°-90°	56.4	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°	741.3	24.9
0°-40°	1222.6	41.0
0°-60°	2242.1	75.2
0°-90°	2980.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2980.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	944	944	951	947	940	90
15°	910	912	914	916	919	257
25°	840	845	854	861	866	388
35°	745	750	766	787	798	466
45°	625	636	664	706	731	482
55°	479	500	558	623	655	428
65°	317	352	437	507	539	312
75°	150	204	275	280	273	162
85°	37	44	46	44	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.6	946.6	946.6	946.6	946.6
2.5°	958.2	955.9	948.9	944.3	939.7
5°	944.3	944.3	951.2	946.6	939.7
7.5°	937.4	937.4	937.4	948.9	937.4
10°	930.4	932.7	930.4	939.7	930.4
12.5°	923.5	923.5	923.5	925.8	925.8
15°	909.6	911.9	914.2	916.5	918.8
17.5°	895.7	898.0	902.6	905.0	907.3
20°	881.8	884.1	891.1	891.1	895.7
22.5°	863.3	863.3	872.6	874.9	881.8
25°	840.2	844.8	854.0	861.0	865.6
27.5°	819.3	824.0	833.2	842.5	849.4
30°	796.2	800.8	810.1	824.0	833.2
32.5°	770.7	775.3	789.2	805.4	814.7
35°	745.3	749.9	766.1	786.9	798.5
37.5°	717.5	724.4	742.9	766.1	780.0
40°	689.7	696.7	717.5	742.9	763.8
42.5°	657.3	666.6	689.7	724.4	747.6
45°	624.9	636.5	664.3	705.9	731.4
47.5°	590.2	601.8	634.2	687.4	715.2
50°	555.5	569.4	608.7	666.6	696.7
52.5°	518.4	532.3	583.2	645.7	678.1
55°	479.1	499.9	557.8	622.6	655.0
57.5°	439.7	462.9	527.7	597.1	631.9
60°	398.1	425.9	499.9	569.4	604.1
62.5°	358.7	388.8	469.8	539.3	574.0
65°	317.1	351.8	437.4	506.9	539.3
67.5°	273.1	317.1	400.4	467.5	499.9
70°	229.1	280.1	363.4	425.9	456.0
72.5°	189.8	243.0	321.7	374.9	374.9
75°	150.4	203.7	275.4	280.1	273.1
77.5°	115.7	166.6	215.2	196.7	201.4
80°	85.6	127.3	136.6	143.5	148.1
82.5°	57.9	85.6	87.9	92.6	92.6
85°	37.0	44.0	46.3	44.0	41.7
87.5°	16.2	18.5	13.9	9.3	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)