

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-LD5-44-SQP-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-LD5-44-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3608.9 lumens
Efficiency: N/A
Efficacy: 86.3 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

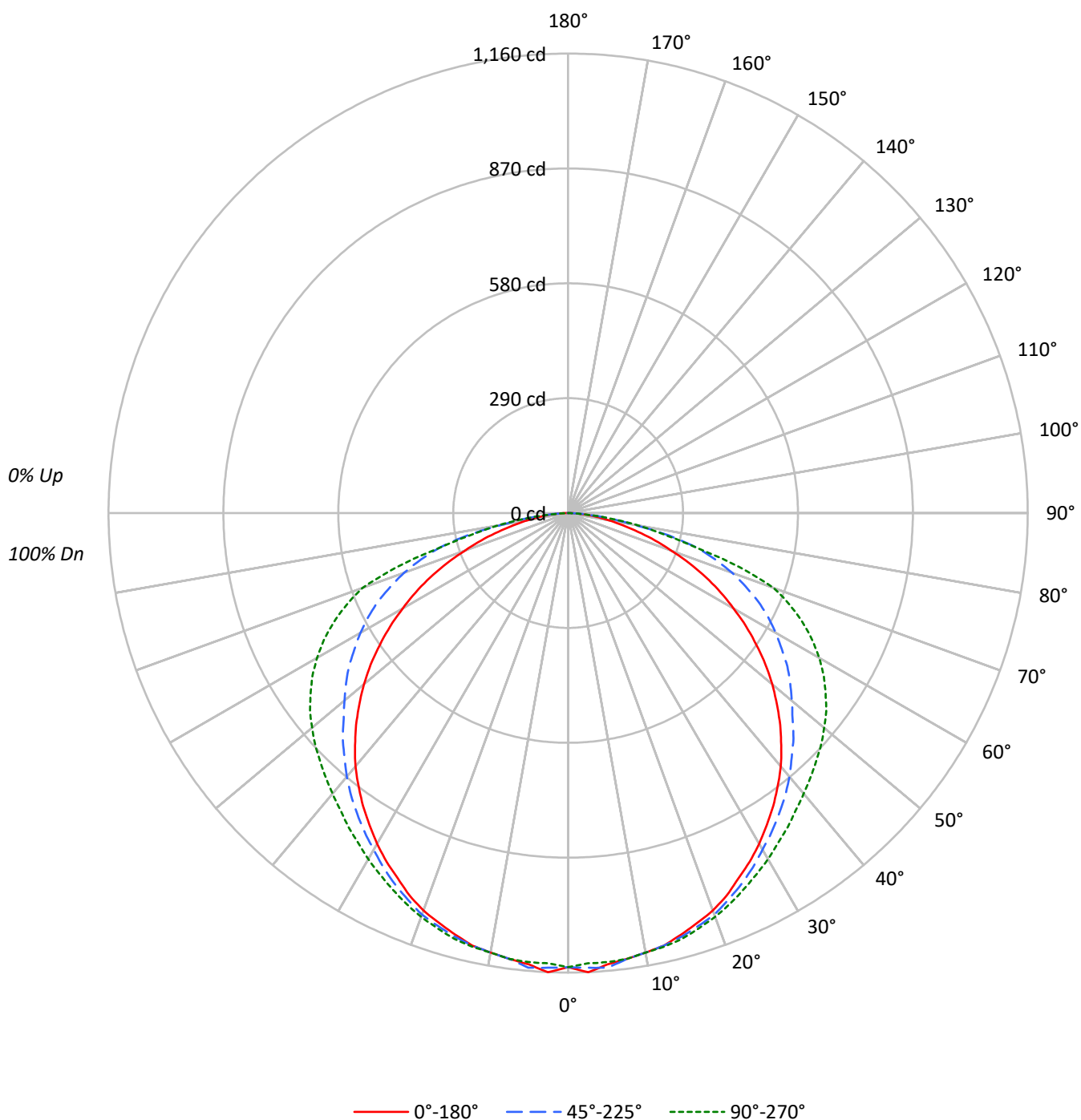
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3085	3085	3085
5°	3075	3092	3060
10°	3052	3041	3052
15°	3028	3027	3059
20°	3003	3012	3050
25°	2952	2973	3041
30°	2912	2928	3047
35°	2864	2904	3069
40°	2816	2881	3118
45°	2743	2859	3210
50°	2657	2846	3333
55°	2540	2878	3473
60°	2388	2903	3623
65°	2208	2929	3755
70°	1920	2899	3819
75°	1596	2743	2898
80°	1252	1829	2166
85°	880	958	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.0
10°-20°	312.5	8.7
20°-30°	476.3	13.2
30°-40°	582.8	16.1
40°-50°	627.1	17.4
50°-60°	607.4	16.8
60°-70°	514.5	14.3
70°-80°	311.0	8.6
80°-90°	68.3	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°	897.7	24.9
0°-40°	1480.5	41.0
0°-60°	2715.0	75.2
0°-90°	3608.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3608.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1144	1144	1152	1146	1138	109
15°	1101	1104	1107	1110	1113	311
25°	1017	1023	1034	1043	1048	470
35°	902	908	928	953	967	564
45°	757	771	804	855	886	583
55°	580	605	675	754	793	518
65°	384	426	530	614	653	378
75°	182	247	334	339	331	196
85°	45	53	56	53	50	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.3	1146.3	1146.3	1146.3	1146.3
2.5°	1160.3	1157.5	1149.1	1143.5	1137.9
5°	1143.5	1143.5	1151.9	1146.3	1137.9
7.5°	1135.1	1135.1	1135.1	1149.1	1135.1
10°	1126.7	1129.5	1126.7	1137.9	1126.7
12.5°	1118.2	1118.2	1118.2	1121.0	1121.0
15°	1101.4	1104.2	1107.0	1109.8	1112.6
17.5°	1084.6	1087.4	1093.0	1095.8	1098.6
20°	1067.8	1070.6	1079.0	1079.0	1084.6
22.5°	1045.4	1045.4	1056.6	1059.4	1067.8
25°	1017.4	1023.0	1034.2	1042.6	1048.2
27.5°	992.1	997.7	1008.9	1020.2	1028.6
30°	964.1	969.7	980.9	997.7	1008.9
32.5°	933.3	938.9	955.7	975.3	986.5
35°	902.4	908.1	927.7	952.9	966.9
37.5°	868.8	877.2	899.6	927.7	944.5
40°	835.2	843.6	868.8	899.6	924.9
42.5°	795.9	807.2	835.2	877.2	905.2
45°	756.7	770.7	804.4	854.8	885.6
47.5°	714.7	728.7	767.9	832.4	866.0
50°	672.6	689.4	737.1	807.2	843.6
52.5°	627.8	644.6	706.3	781.9	821.2
55°	580.1	605.4	675.4	753.9	793.1
57.5°	532.5	560.5	639.0	723.1	765.1
60°	482.1	515.7	605.4	689.4	731.5
62.5°	434.4	470.8	568.9	653.0	695.1
65°	384.0	426.0	529.7	613.8	653.0
67.5°	330.7	384.0	484.9	566.1	605.4
70°	277.5	339.1	440.0	515.7	552.1
72.5°	229.8	294.3	389.6	454.0	454.0
75°	182.2	246.6	333.5	339.1	330.7
77.5°	140.1	201.8	260.6	238.2	243.8
80°	103.7	154.1	165.4	173.8	179.4
82.5°	70.1	103.7	106.5	112.1	112.1
85°	44.8	53.2	56.1	53.2	50.4
87.5°	19.6	22.4	16.8	11.2	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)