

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-LD5-32SE-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-LD5-32SE-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

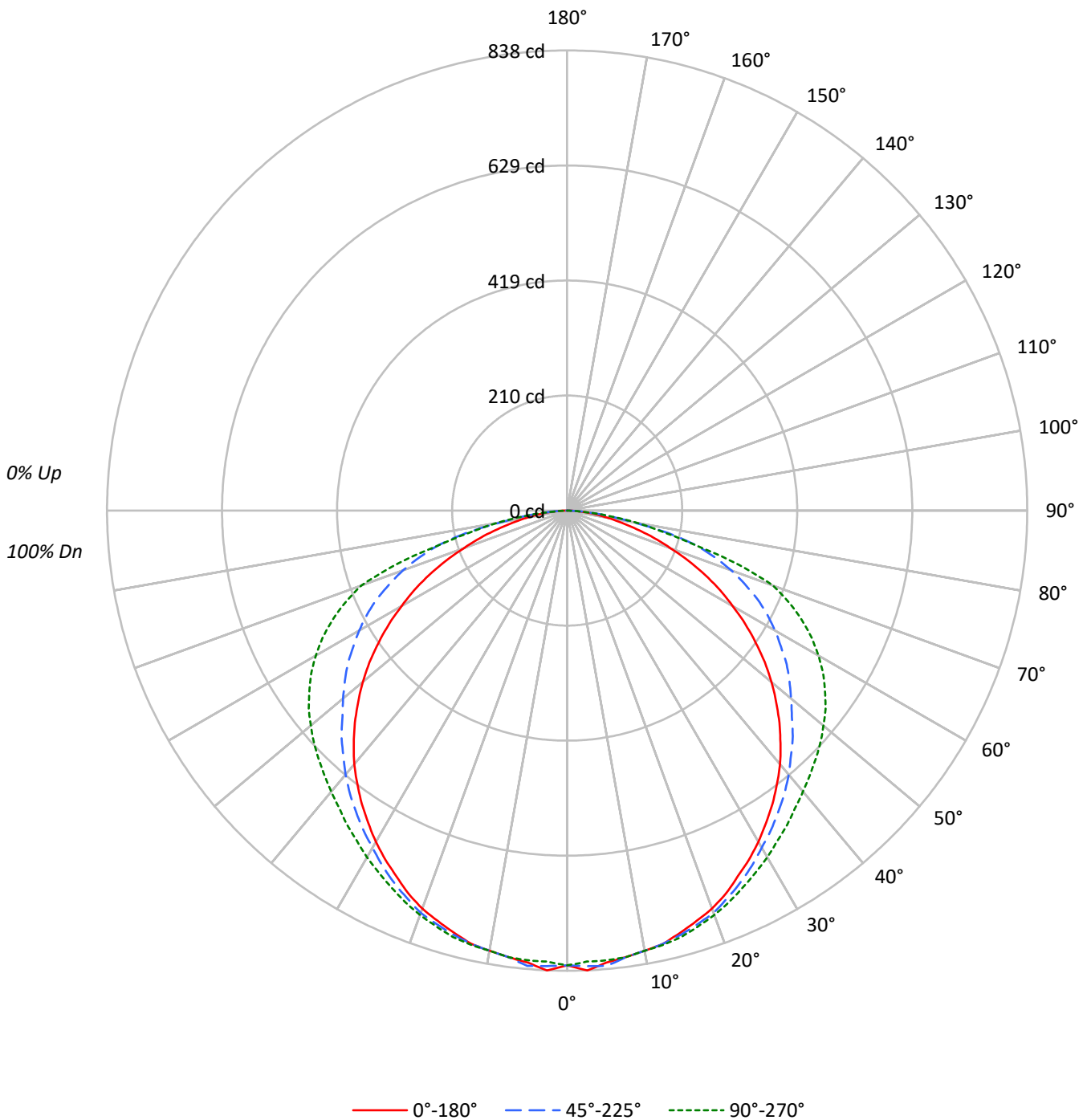
Lumens per Lamp: N/A
Luminaire Lumens: 2607.5 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 30.53
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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	2229	2229	2229
5°	2222	2234	2211
10°	2205	2197	2205
15°	2188	2187	2210
20°	2170	2177	2204
25°	2133	2148	2197
30°	2104	2116	2202
35°	2069	2098	2217
40°	2034	2081	2253
45°	1981	2066	2319
50°	1920	2056	2408
55°	1836	2079	2510
60°	1725	2097	2618
65°	1595	2116	2713
70°	1387	2094	2759
75°	1153	1983	2093
80°	904	1322	1565
85°	637	692	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.0
10°-20°	225.8	8.7
20°-30°	344.1	13.2
30°-40°	421.1	16.1
40°-50°	453.1	17.4
50°-60°	438.9	16.8
60°-70°	371.8	14.3
70°-80°	224.7	8.6
80°-90°	49.4	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°	648.6	24.9
0°-40°	1069.7	41.0
0°-60°	1961.6	75.2
0°-90°	2607.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	826	826	832	828	822	79
15°	796	798	800	802	804	225
25°	735	739	747	753	757	339
35°	652	656	670	688	699	408
45°	547	557	581	618	640	421
55°	419	437	488	545	573	374
65°	277	308	383	444	472	273
75°	132	178	241	245	239	141
85°	32	38	40	38	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.2	828.2	828.2	828.2	828.2
2.5°	838.3	836.3	830.2	826.2	822.1
5°	826.2	826.2	832.3	828.2	822.1
7.5°	820.1	820.1	820.1	830.2	820.1
10°	814.0	816.1	814.0	822.1	814.0
12.5°	808.0	808.0	808.0	810.0	810.0
15°	795.8	797.8	799.9	801.9	803.9
17.5°	783.7	785.7	789.7	791.8	793.8
20°	771.5	773.5	779.6	779.6	783.7
22.5°	755.3	755.3	763.4	765.4	771.5
25°	735.1	739.1	747.2	753.3	757.3
27.5°	716.8	720.9	729.0	737.1	743.2
30°	696.6	700.6	708.7	720.9	729.0
32.5°	674.3	678.4	690.5	704.7	712.8
35°	652.0	656.1	670.3	688.5	698.6
37.5°	627.7	633.8	650.0	670.3	682.4
40°	603.4	609.5	627.7	650.0	668.2
42.5°	575.1	583.2	603.4	633.8	654.1
45°	546.7	556.9	581.2	617.6	639.9
47.5°	516.4	526.5	554.8	601.4	625.7
50°	486.0	498.1	532.6	583.2	609.5
52.5°	453.6	465.7	510.3	565.0	593.3
55°	419.2	437.4	488.0	544.7	573.1
57.5°	384.7	405.0	461.7	522.4	552.8
60°	348.3	372.6	437.4	498.1	528.5
62.5°	313.9	340.2	411.1	471.8	502.2
65°	277.4	307.8	382.7	443.5	471.8
67.5°	238.9	277.4	350.3	409.0	437.4
70°	200.5	245.0	317.9	372.6	398.9
72.5°	166.0	212.6	281.5	328.0	328.0
75°	131.6	178.2	241.0	245.0	238.9
77.5°	101.2	145.8	188.3	172.1	176.2
80°	74.9	111.4	119.5	125.5	129.6
82.5°	50.6	74.9	76.9	81.0	81.0
85°	32.4	38.5	40.5	38.5	36.4
87.5°	14.2	16.2	12.1	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)