

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-LD5-34-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-LD5-34-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2631.9 lumens
Efficiency: N/A
Efficacy: 89.5 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

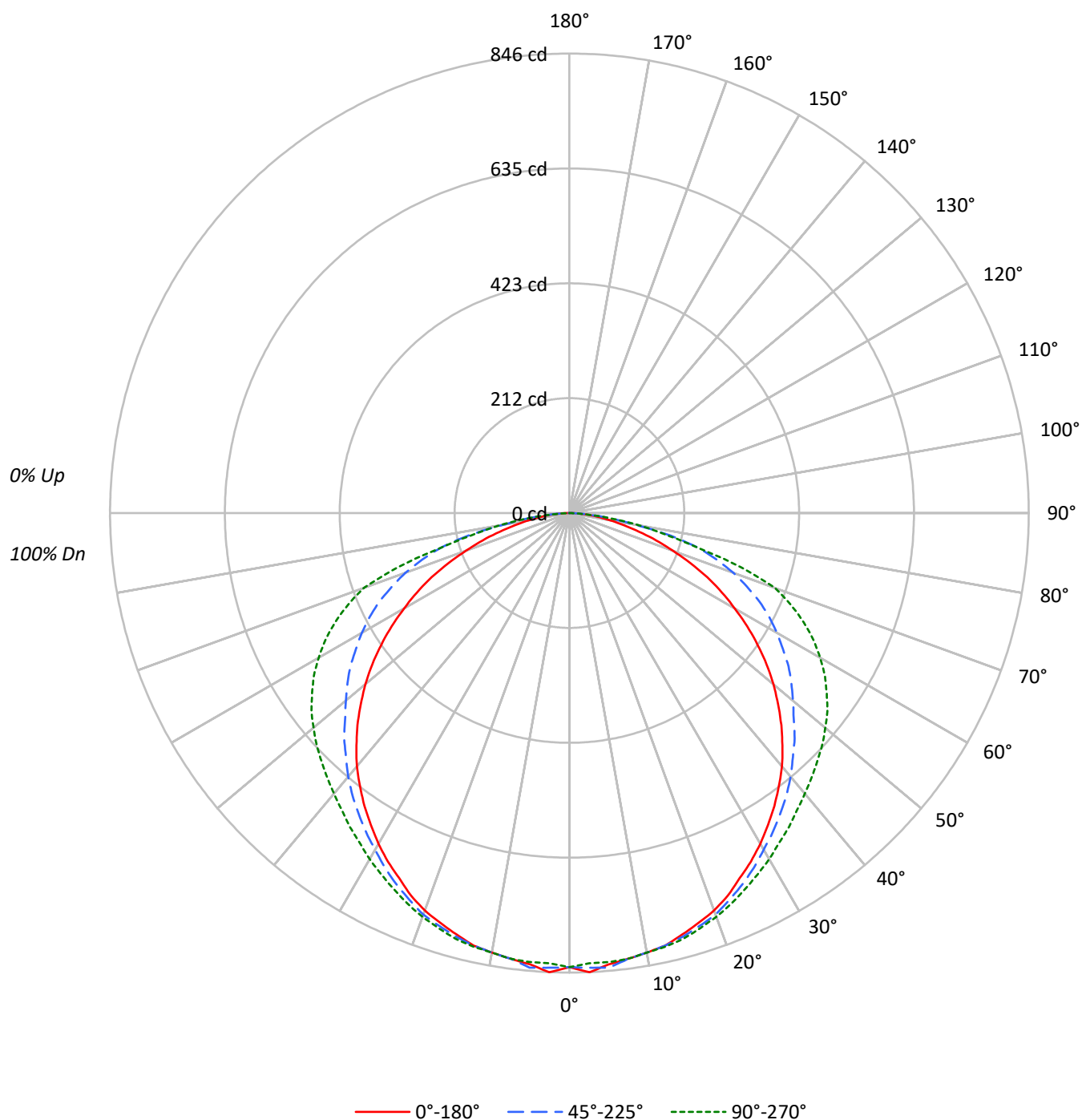
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	2249	2249	2249
5°	2243	2255	2232
10°	2225	2217	2225
15°	2208	2207	2231
20°	2190	2197	2225
25°	2153	2168	2218
30°	2123	2136	2222
35°	2089	2118	2238
40°	2054	2101	2274
45°	2000	2085	2341
50°	1938	2075	2431
55°	1853	2099	2533
60°	1741	2117	2642
65°	1610	2136	2739
70°	1399	2114	2785
75°	1164	2001	2113
80°	913	1334	1579
85°	642	698	723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.0
10°-20°	227.9	8.7
20°-30°	347.4	13.2
30°-40°	425.0	16.1
40°-50°	457.3	17.4
50°-60°	443.0	16.8
60°-70°	375.2	14.3
70°-80°	226.8	8.6
80°-90°	49.8	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°	654.7	24.9
0°-40°	1079.7	41.0
0°-60°	1979.9	75.2
0°-90°	2631.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	834	834	840	836	830	79
15°	803	805	807	809	811	227
25°	742	746	754	760	764	342
35°	658	662	676	695	705	412
45°	552	562	587	623	646	425
55°	423	442	493	550	578	378
65°	280	311	386	448	476	276
75°	133	180	243	247	241	143
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.9	835.9	835.9	835.9	835.9
2.5°	846.2	844.1	838.0	833.9	829.8
5°	833.9	833.9	840.0	835.9	829.8
7.5°	827.8	827.8	827.8	838.0	827.8
10°	821.6	823.7	821.6	829.8	821.6
12.5°	815.5	815.5	815.5	817.5	817.5
15°	803.2	805.3	807.3	809.4	811.4
17.5°	791.0	793.0	797.1	799.2	801.2
20°	778.7	780.8	786.9	786.9	791.0
22.5°	762.4	762.4	770.5	772.6	778.7
25°	741.9	746.0	754.2	760.3	764.4
27.5°	723.5	727.6	735.8	744.0	750.1
30°	703.1	707.2	715.4	727.6	735.8
32.5°	680.6	684.7	697.0	711.3	719.4
35°	658.1	662.2	676.5	694.9	705.1
37.5°	633.6	639.7	656.1	676.5	688.8
40°	609.1	615.2	633.6	656.1	674.5
42.5°	580.5	588.6	609.1	639.7	660.2
45°	551.8	562.1	586.6	623.4	645.9
47.5°	521.2	531.4	560.0	607.0	631.6
50°	490.5	502.8	537.5	588.6	615.2
52.5°	457.8	470.1	515.1	570.2	598.9
55°	423.1	441.5	492.6	549.8	578.4
57.5°	388.3	408.8	466.0	527.3	558.0
60°	351.5	376.1	441.5	502.8	533.4
62.5°	316.8	343.4	414.9	476.2	506.9
65°	280.0	310.7	386.3	447.6	476.2
67.5°	241.2	280.0	353.6	412.9	441.5
70°	202.3	247.3	320.9	376.1	402.6
72.5°	167.6	214.6	284.1	331.1	331.1
75°	132.9	179.9	243.2	247.3	241.2
77.5°	102.2	147.2	190.1	173.7	177.8
80°	75.6	112.4	120.6	126.7	130.8
82.5°	51.1	75.6	77.7	81.8	81.8
85°	32.7	38.8	40.9	38.8	36.8
87.5°	14.3	16.4	12.3	8.2	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)