

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: **24CZ-LD5-35SE-RDP-UNV-L830-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: 24CZ-LD5-35SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

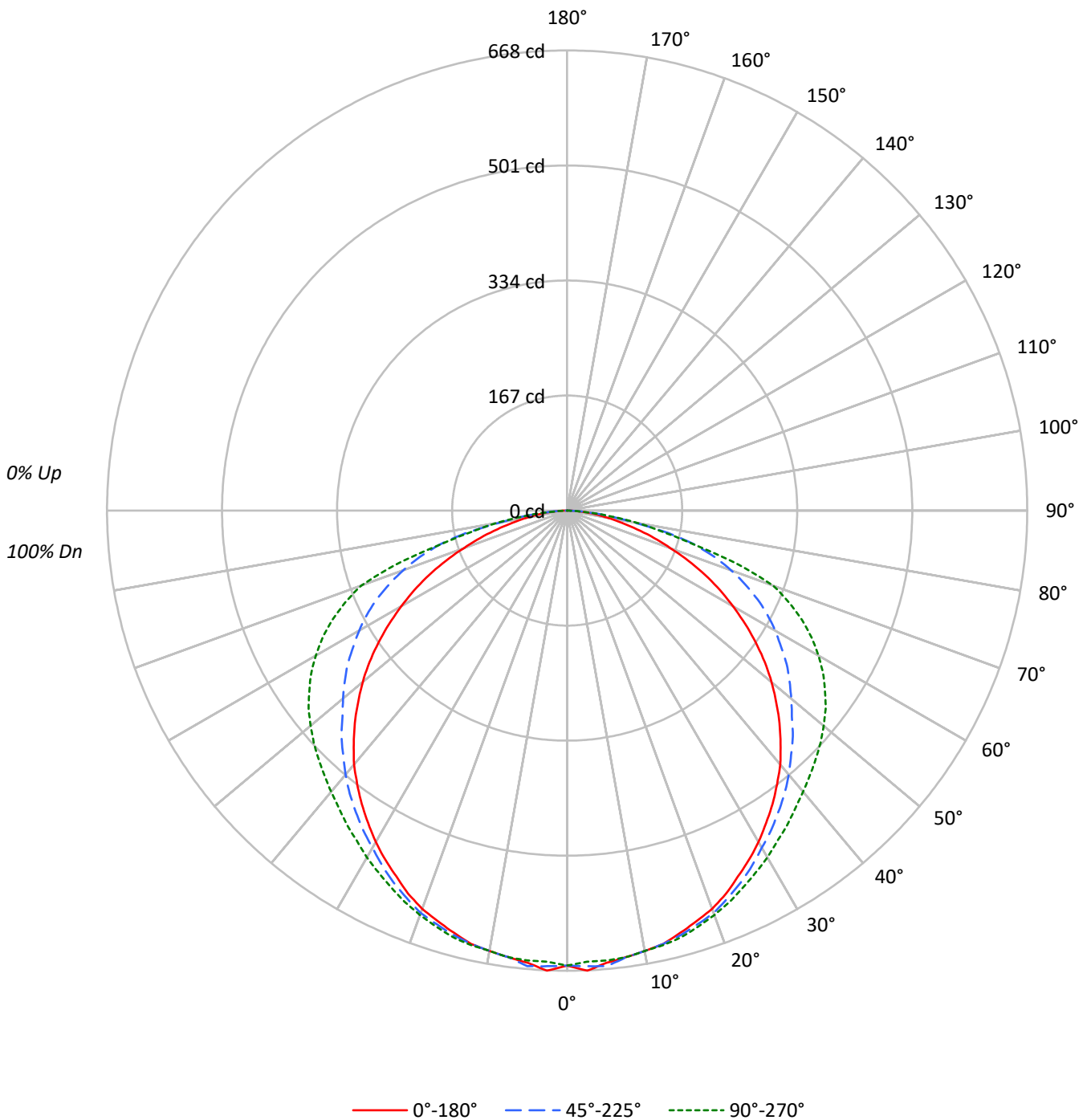
Lumens per Lamp: N/A
Luminaire Lumens: 2079.3 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 28.57
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°	889	889	889
5°	888	892	882
10°	883	879	879
15°	878	876	881
20°	873	873	879
25°	860	863	876
30°	851	852	878
35°	839	847	884
40°	828	842	898
45°	809	837	925
50°	788	836	960
55°	757	848	1001
60°	717	860	1044
65°	669	872	1082
70°	589	871	1101
75°	499	834	835
80°	406	568	624
85°	310	310	286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.0
10°-20°	180.1	8.7
20°-30°	274.4	13.2
30°-40°	335.8	16.1
40°-50°	361.3	17.4
50°-60°	350.0	16.8
60°-70°	296.5	14.3
70°-80°	179.2	8.6
80°-90°	39.4	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°	517.2	24.9
0°-40°	853.0	41.0
0°-60°	1564.2	75.2
0°-90°	2079.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	659	659	664	660	656	63
15°	635	636	638	639	641	179
25°	586	589	596	601	604	271
35°	520	523	534	549	557	325
45°	436	444	463	492	510	336
55°	334	349	389	434	457	299
65°	221	246	305	354	376	218
75°	105	142	192	195	191	113
85°	26	31	32	31	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.4	660.4	660.4	660.4	660.4
2.5°	668.5	666.9	662.1	658.8	655.6
5°	658.8	658.8	663.7	660.4	655.6
7.5°	654.0	654.0	654.0	662.1	654.0
10°	649.1	650.8	649.1	655.6	649.1
12.5°	644.3	644.3	644.3	645.9	645.9
15°	634.6	636.2	637.8	639.4	641.1
17.5°	624.9	626.5	629.8	631.4	633.0
20°	615.2	616.8	621.7	621.7	624.9
22.5°	602.3	602.3	608.8	610.4	615.2
25°	586.2	589.4	595.8	600.7	603.9
27.5°	571.6	574.8	581.3	587.8	592.6
30°	555.5	558.7	565.2	574.8	581.3
32.5°	537.7	540.9	550.6	561.9	568.4
35°	519.9	523.2	534.5	549.0	557.1
37.5°	500.6	505.4	518.3	534.5	544.2
40°	481.2	486.0	500.6	518.3	532.9
42.5°	458.6	465.0	481.2	505.4	521.6
45°	436.0	444.0	463.4	492.5	510.2
47.5°	411.7	419.8	442.4	479.6	498.9
50°	387.5	397.2	424.6	465.0	486.0
52.5°	361.8	371.4	406.9	450.5	473.1
55°	334.3	348.8	389.1	434.3	457.0
57.5°	306.8	323.0	368.2	416.6	440.8
60°	277.8	297.2	348.8	397.2	421.4
62.5°	250.3	271.3	327.8	376.3	400.4
65°	221.3	245.5	305.2	353.7	376.3
67.5°	190.6	221.3	279.4	326.2	348.8
70°	159.9	195.4	253.6	297.2	318.2
72.5°	132.4	169.6	224.5	261.6	261.6
75°	105.0	142.1	192.2	195.4	190.6
77.5°	80.8	116.3	150.2	137.3	140.5
80°	59.8	88.8	95.3	100.1	103.4
82.5°	40.4	59.8	61.4	64.6	64.6
85°	25.8	30.7	32.3	30.7	29.1
87.5°	11.3	12.9	9.7	6.5	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)