

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-LD5-30-RDP-UNV-L835-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-LD5-30-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.1 lumens
Efficiency: N/A
Efficacy: 91.7 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

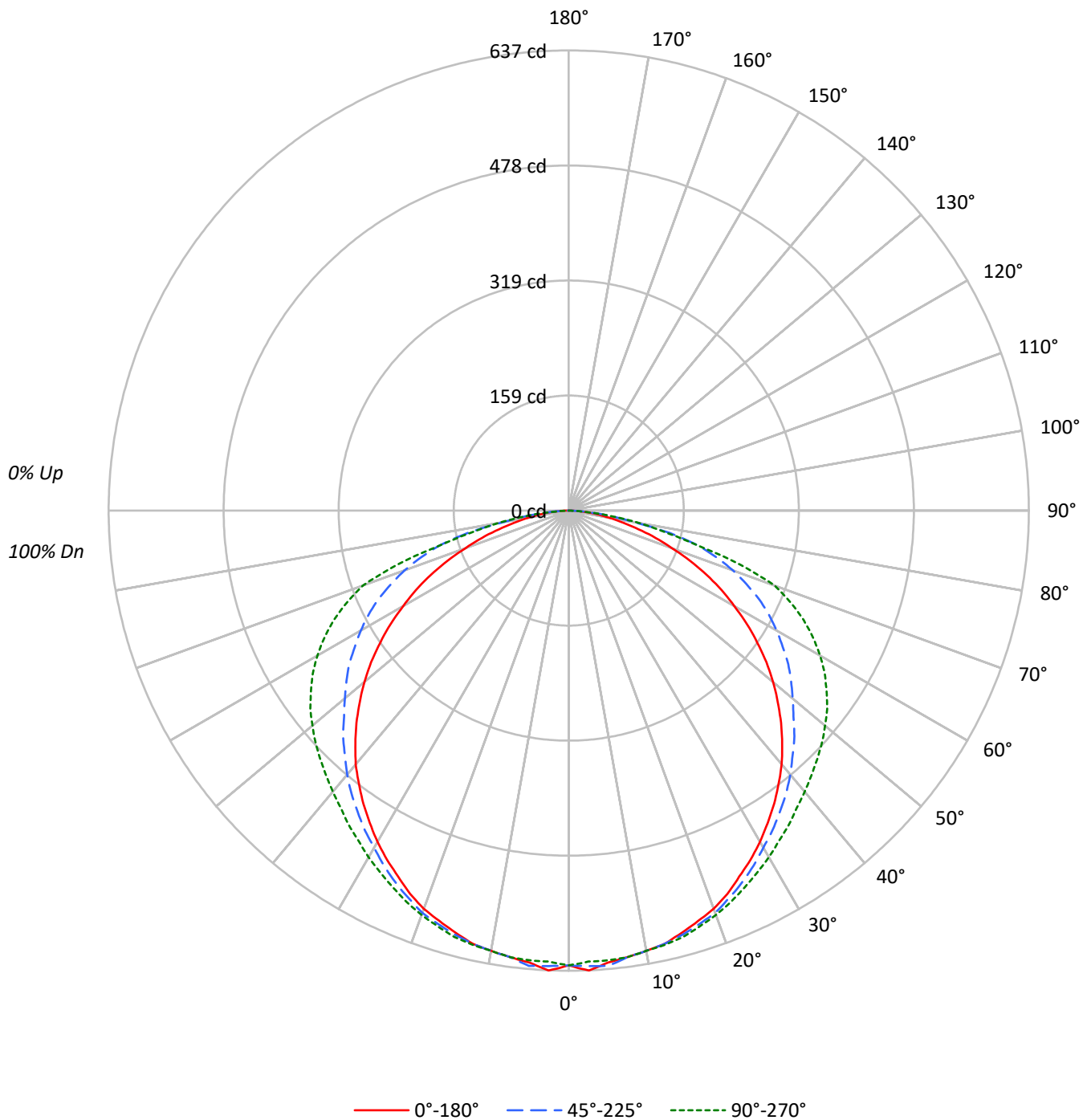
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-RDP-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-RDP-UNV-L835-CD1-U

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°	847	847	847
5°	846	850	840
10°	842	838	838
15°	837	835	840
20°	832	832	838
25°	820	823	835
30°	811	812	837
35°	800	807	843
40°	789	802	856
45°	772	798	881
50°	751	797	915
55°	722	809	954
60°	683	819	995
65°	637	832	1031
70°	561	830	1049
75°	476	795	796
80°	387	541	595
85°	295	296	272



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-RDP-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.0
10°-20°	171.7	8.7
20°-30°	261.6	13.2
30°-40°	320.1	16.1
40°-50°	344.4	17.4
50°-60°	333.6	16.8
60°-70°	282.6	14.3
70°-80°	170.8	8.6
80°-90°	37.5	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°	493.0	24.9
0°-40°	813.1	41.0
0°-60°	1491.1	75.2
0°-90°	1982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	628	628	633	630	625	60
15°	605	606	608	610	611	171
25°	559	562	568	573	576	258
35°	496	499	510	523	531	310
45°	416	423	442	470	486	320
55°	319	332	371	414	436	285
65°	211	234	291	337	359	208
75°	100	136	183	186	182	108
85°	25	29	31	29	28	28
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-RDP-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.6	629.6	629.6	629.6	629.6
2.5°	637.3	635.7	631.1	628.0	624.9
5°	628.0	628.0	632.6	629.6	624.9
7.5°	623.4	623.4	623.4	631.1	623.4
10°	618.8	620.3	618.8	624.9	618.8
12.5°	614.2	614.2	614.2	615.7	615.7
15°	604.9	606.5	608.0	609.6	611.1
17.5°	595.7	597.2	600.3	601.9	603.4
20°	586.5	588.0	592.6	592.6	595.7
22.5°	574.2	574.2	580.3	581.8	586.5
25°	558.8	561.8	568.0	572.6	575.7
27.5°	544.9	548.0	554.1	560.3	564.9
30°	529.5	532.6	538.7	548.0	554.1
32.5°	512.6	515.7	524.9	535.7	541.8
35°	495.6	498.7	509.5	523.4	531.1
37.5°	477.2	481.8	494.1	509.5	518.7
40°	458.7	463.3	477.2	494.1	508.0
42.5°	437.2	443.3	458.7	481.8	497.2
45°	415.6	423.3	441.8	469.5	486.4
47.5°	392.5	400.2	421.8	457.2	475.6
50°	369.4	378.7	404.8	443.3	463.3
52.5°	344.8	354.0	387.9	429.5	451.0
55°	318.6	332.5	371.0	414.1	435.6
57.5°	292.5	307.9	351.0	397.1	420.2
60°	264.8	283.2	332.5	378.7	401.8
62.5°	238.6	258.6	312.5	358.7	381.7
65°	210.9	234.0	290.9	337.1	358.7
67.5°	181.6	210.9	266.3	310.9	332.5
70°	152.4	186.3	241.7	283.2	303.2
72.5°	126.2	161.6	214.0	249.4	249.4
75°	100.1	135.5	183.2	186.3	181.6
77.5°	77.0	110.8	143.2	130.8	133.9
80°	57.0	84.7	90.8	95.4	98.5
82.5°	38.5	57.0	58.5	61.6	61.6
85°	24.6	29.2	30.8	29.2	27.7
87.5°	10.8	12.3	9.2	6.2	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)