

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-LD5-40-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-LD5-40-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.3 lumens
Efficiency: N/A
Efficacy: 80.4 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

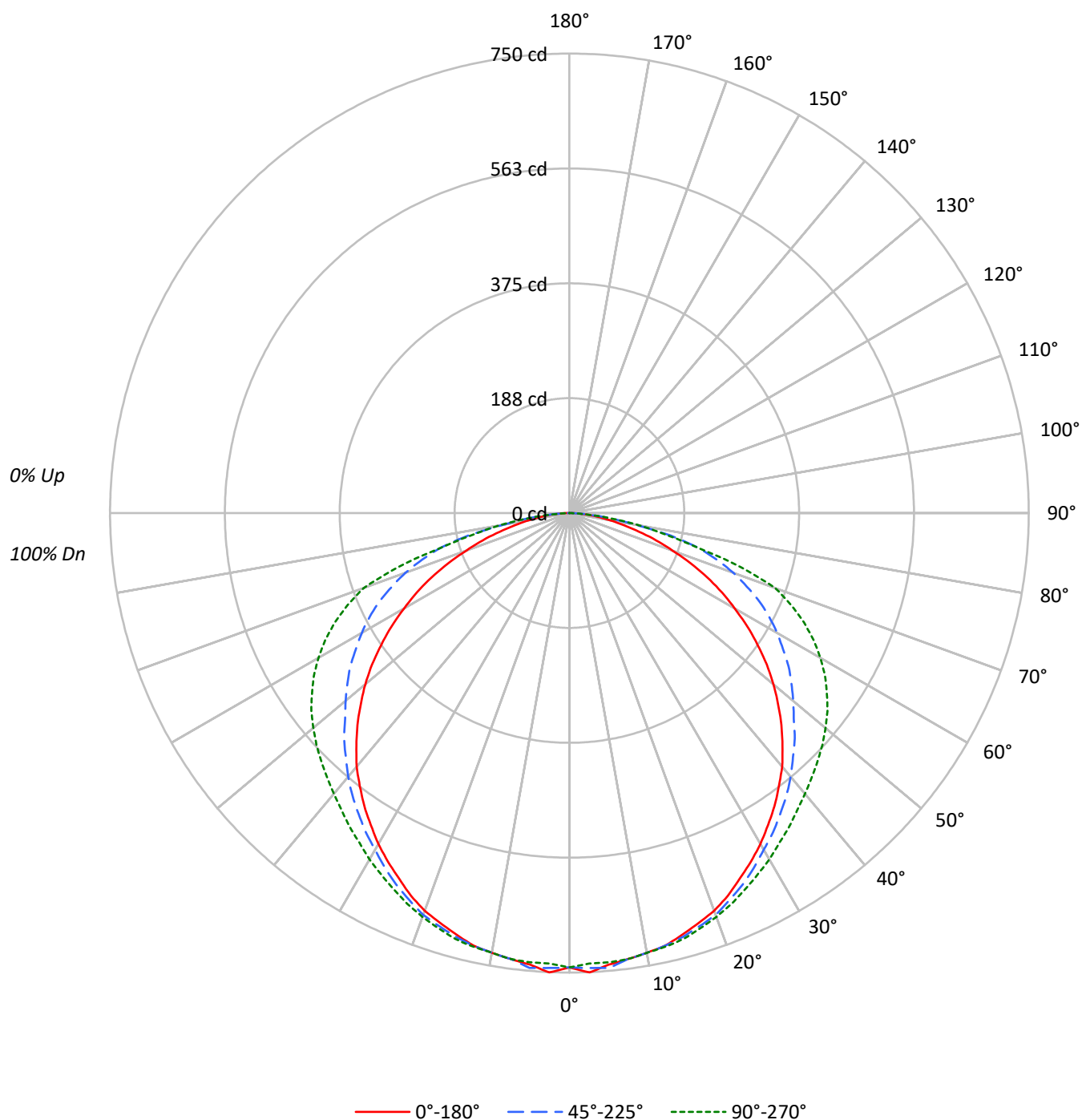
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	998	998	998
5°	997	1002	990
10°	991	986	987
15°	986	984	989
20°	980	980	987
25°	966	969	984
30°	955	956	985
35°	942	950	992
40°	929	945	1008
45°	909	940	1038
50°	884	939	1078
55°	850	953	1123
60°	804	965	1172
65°	750	980	1215
70°	661	977	1235
75°	560	936	937
80°	455	637	700
85°	348	349	320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.0
10°-20°	202.2	8.7
20°-30°	308.1	13.2
30°-40°	377.0	16.1
40°-50°	405.6	17.4
50°-60°	392.9	16.8
60°-70°	332.8	14.3
70°-80°	201.2	8.6
80°-90°	44.2	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°	580.7	24.9
0°-40°	957.6	41.0
0°-60°	1756.1	75.2
0°-90°	2334.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	740	740	745	742	736	70
15°	712	714	716	718	720	201
25°	658	662	669	674	678	304
35°	584	587	600	616	625	365
45°	489	499	520	553	573	377
55°	375	392	437	488	513	335
65°	248	276	343	397	422	245
75°	118	160	216	219	214	127
85°	29	34	36	34	33	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.5	741.5	741.5	741.5	741.5
2.5°	750.5	748.7	743.3	739.7	736.0
5°	739.7	739.7	745.1	741.5	736.0
7.5°	734.2	734.2	734.2	743.3	734.2
10°	728.7	730.6	728.7	736.0	728.7
12.5°	723.3	723.3	723.3	725.1	725.1
15°	712.4	714.2	716.1	717.9	719.7
17.5°	701.6	703.4	707.0	708.8	710.6
20°	690.6	692.5	698.0	698.0	701.6
22.5°	676.2	676.2	683.4	685.2	690.6
25°	658.1	661.7	668.9	674.4	678.0
27.5°	641.7	645.3	652.6	659.9	665.3
30°	623.6	627.2	634.5	645.3	652.6
32.5°	603.6	607.3	618.2	630.9	638.1
35°	583.8	587.4	600.0	616.4	625.4
37.5°	562.0	567.4	581.9	600.0	610.9
40°	540.3	545.7	562.0	581.9	598.2
42.5°	514.8	522.1	540.3	567.4	585.6
45°	489.4	498.6	520.3	552.9	572.8
47.5°	462.3	471.3	496.8	538.4	560.1
50°	435.1	445.9	476.8	522.1	545.7
52.5°	406.0	417.0	456.9	505.8	531.1
55°	375.2	391.6	436.9	487.6	513.0
57.5°	344.5	362.5	413.3	467.7	494.9
60°	311.8	333.5	391.6	445.9	473.1
62.5°	281.0	304.6	368.0	422.4	449.5
65°	248.3	275.6	342.7	397.0	422.4
67.5°	213.9	248.3	313.6	366.2	391.6
70°	179.5	219.4	284.6	333.5	357.1
72.5°	148.7	190.4	251.9	293.6	293.6
75°	117.8	159.5	215.7	219.4	213.9
77.5°	90.6	130.5	168.6	154.1	157.7
80°	67.1	99.8	107.0	112.4	116.0
82.5°	45.3	67.1	68.9	72.5	72.5
85°	29.0	34.5	36.3	34.5	32.6
87.5°	12.7	14.5	10.8	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)