

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-LD5-35-RDP-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: 24CZ-LD5-35-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

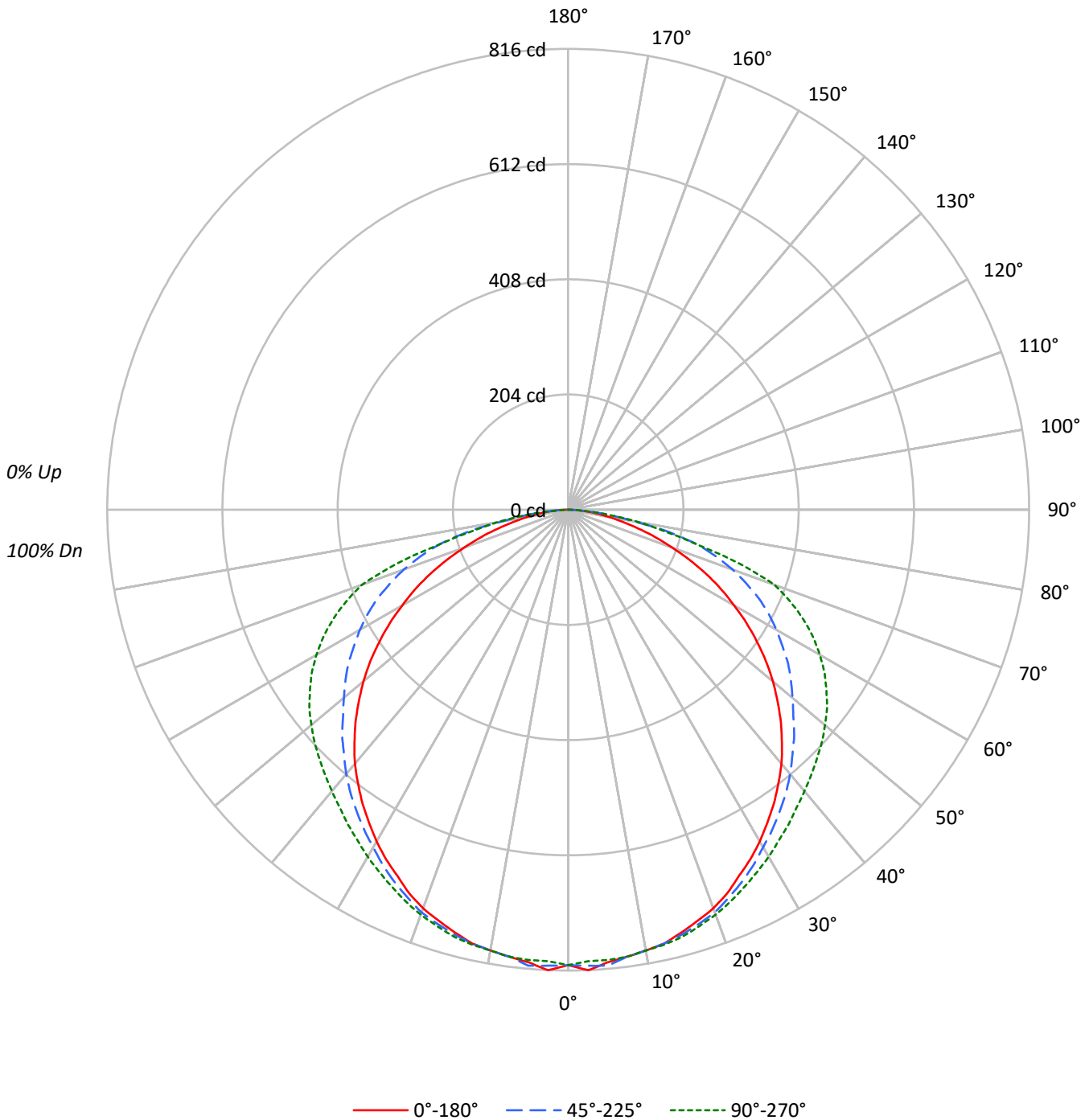
Lumens per Lamp: N/A
Luminaire Lumens: 2538.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25.32
Input Voltage (V): NR
Input Current (A_{in}): 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°	1085	1085	1085
5°	1084	1089	1076
10°	1078	1073	1073
15°	1072	1069	1076
20°	1066	1066	1073
25°	1050	1054	1070
30°	1039	1040	1072
35°	1025	1033	1079
40°	1011	1028	1097
45°	988	1022	1129
50°	962	1021	1172
55°	924	1036	1221
60°	875	1049	1274
65°	816	1065	1321
70°	719	1063	1343
75°	609	1018	1019
80°	495	693	762
85°	378	379	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.0
10°-20°	219.9	8.7
20°-30°	335.0	13.2
30°-40°	409.9	16.1
40°-50°	441.1	17.4
50°-60°	427.3	16.8
60°-70°	361.9	14.3
70°-80°	218.8	8.6
80°-90°	48.1	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°	631.5	24.9
0°-40°	1041.4	41.0
0°-60°	1909.8	75.2
0°-90°	2538.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	804	804	810	806	800	76
15°	775	777	779	781	783	219
25°	716	720	728	733	737	330
35°	635	639	652	670	680	397
45°	532	542	566	601	623	410
55°	408	426	475	530	558	365
65°	270	300	373	432	459	266
75°	128	174	235	238	233	138
85°	32	38	39	38	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.3	806.3	806.3	806.3	806.3
2.5°	816.2	814.2	808.3	804.4	800.4
5°	804.4	804.4	810.3	806.3	800.4
7.5°	798.4	798.4	798.4	808.3	798.4
10°	792.5	794.5	792.5	800.4	792.5
12.5°	786.6	786.6	786.6	788.6	788.6
15°	774.8	776.8	778.7	780.7	782.7
17.5°	763.0	764.9	768.9	770.8	772.8
20°	751.1	753.1	759.0	759.0	763.0
22.5°	735.4	735.4	743.2	745.2	751.1
25°	715.6	719.6	727.5	733.4	737.3
27.5°	697.9	701.8	709.7	717.6	723.5
30°	678.2	682.1	690.0	701.8	709.7
32.5°	656.5	660.4	672.3	686.1	694.0
35°	634.8	638.7	652.5	670.3	680.1
37.5°	611.1	617.1	632.8	652.5	664.4
40°	587.5	593.4	611.1	632.8	650.6
42.5°	559.9	567.8	587.5	617.1	636.8
45°	532.3	542.1	565.8	601.3	623.0
47.5°	502.7	512.6	540.2	585.5	609.2
50°	473.1	485.0	518.5	567.8	593.4
52.5°	441.6	453.4	496.8	550.0	577.6
55°	408.1	425.8	475.1	530.3	557.9
57.5°	374.6	394.3	449.5	508.6	538.2
60°	339.1	362.7	425.8	485.0	514.5
62.5°	305.6	331.2	400.2	459.3	488.9
65°	270.1	299.7	372.6	431.7	459.3
67.5°	232.6	270.1	341.1	398.2	425.8
70°	195.2	238.5	309.5	362.7	388.4
72.5°	161.7	207.0	274.0	319.4	319.4
75°	128.1	173.5	234.6	238.5	232.6
77.5°	98.6	141.9	183.3	167.6	171.5
80°	72.9	108.4	116.3	122.2	126.2
82.5°	49.3	72.9	74.9	78.9	78.9
85°	31.5	37.5	39.4	37.5	35.5
87.5°	13.8	15.8	11.8	7.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)