

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-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: 24CZ-LD5-35SE-SQP-UNV-L840-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

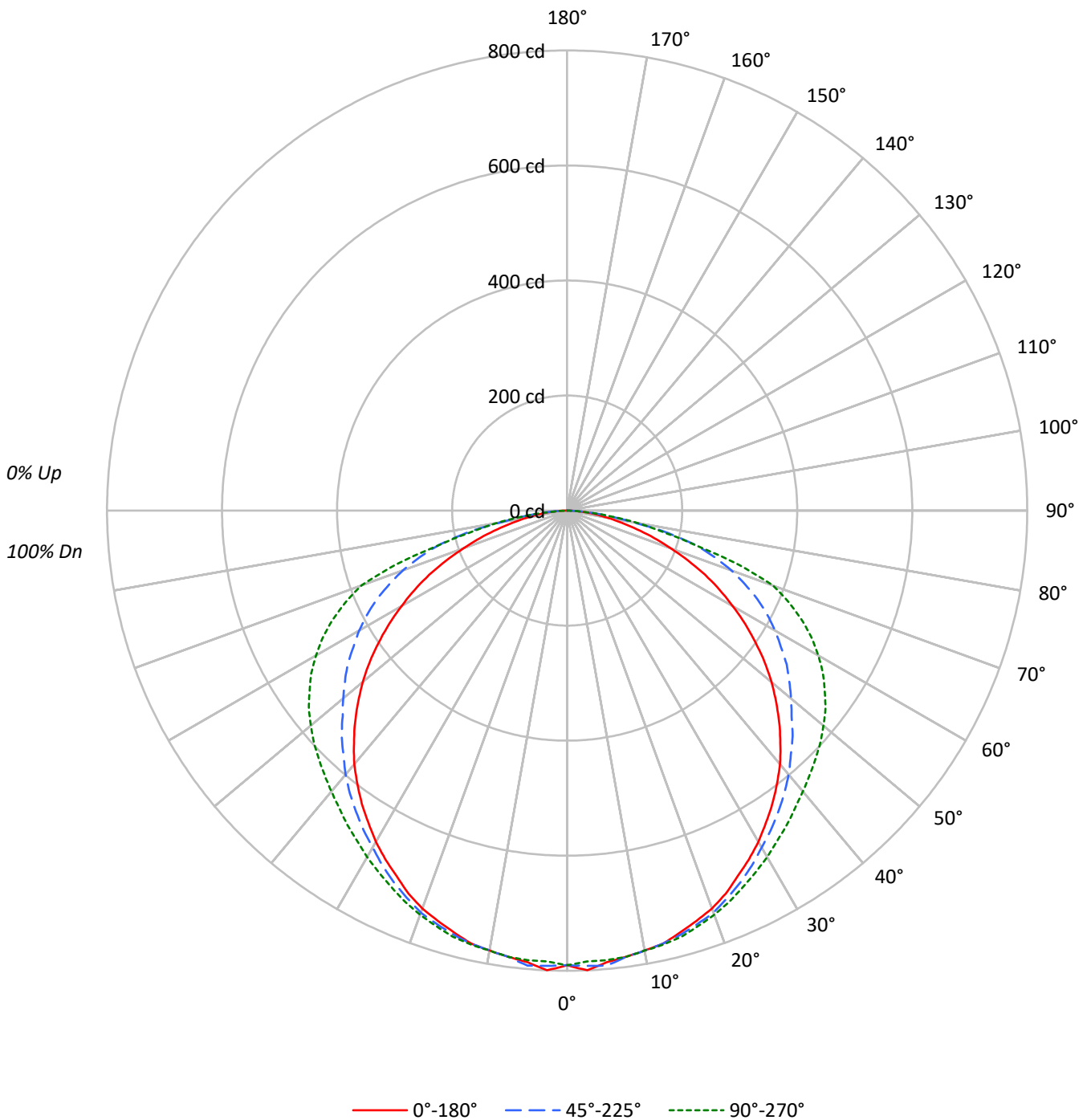
Lumens per Lamp: N/A  
Luminaire Lumens: 2488.1 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 28.57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1063	1063	1063
5°	1062	1068	1055
10°	1057	1051	1052
15°	1051	1048	1054
20°	1045	1045	1052
25°	1029	1033	1048
30°	1018	1020	1050
35°	1004	1013	1058
40°	991	1007	1075
45°	968	1002	1107
50°	943	1001	1149
55°	906	1016	1197
60°	857	1029	1249
65°	800	1044	1294
70°	704	1042	1316
75°	597	998	999
80°	485	679	747
85°	371	371	342



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	3.0
10°-20°	215.5	8.7
20°-30°	328.4	13.2
30°-40°	401.8	16.1
40°-50°	432.3	17.4
50°-60°	418.8	16.8
60°-70°	354.7	14.3
70°-80°	214.4	8.6
80°-90°	47.1	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°	618.9	24.9
0°-40°	1020.7	41.0
0°-60°	1871.8	75.2
0°-90°	2488.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	788	788	794	790	784	75
15°	759	761	763	765	767	214
25°	701	705	713	719	723	324
35°	622	626	640	657	667	389
45°	522	531	554	589	611	402
55°	400	417	466	520	547	357
65°	265	294	365	423	450	261
75°	126	170	230	234	228	135
85°	31	37	39	37	35	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	790.3	790.3	790.3	790.3	790.3
2.5°	799.9	798.0	792.2	788.3	784.5
5°	788.3	788.3	794.1	790.3	784.5
7.5°	782.5	782.5	782.5	792.2	782.5
10°	776.7	778.7	776.7	784.5	776.7
12.5°	771.0	771.0	771.0	772.9	772.9
15°	759.4	761.3	763.2	765.2	767.1
17.5°	747.8	749.7	753.6	755.5	757.4
20°	736.2	738.1	743.9	743.9	747.8
22.5°	720.7	720.7	728.4	730.4	736.2
25°	701.4	705.3	713.0	718.8	722.6
27.5°	684.0	687.9	695.6	703.3	709.1
30°	664.7	668.5	676.3	687.9	695.6
32.5°	643.4	647.3	658.9	672.4	680.1
35°	622.2	626.0	639.6	657.0	666.6
37.5°	599.0	604.8	620.2	639.6	651.2
40°	575.8	581.6	599.0	620.2	637.6
42.5°	548.7	556.5	575.8	604.8	624.1
45°	521.7	531.4	554.5	589.3	610.6
47.5°	492.7	502.4	529.4	573.9	597.1
50°	463.7	475.3	508.2	556.5	581.6
52.5°	432.8	444.4	486.9	539.1	566.1
55°	400.0	417.4	465.7	519.8	546.8
57.5°	367.1	386.4	440.5	498.5	527.5
60°	332.3	355.5	417.4	475.3	504.3
62.5°	299.5	324.6	392.2	450.2	479.2
65°	264.7	293.7	365.2	423.2	450.2
67.5°	228.0	264.7	334.3	390.3	417.4
70°	191.3	233.8	303.4	355.5	380.6
72.5°	158.4	202.9	268.6	313.0	313.0
75°	125.6	170.0	229.9	233.8	228.0
77.5°	96.6	139.1	179.7	164.2	168.1
80°	71.5	106.3	114.0	119.8	123.7
82.5°	48.3	71.5	73.4	77.3	77.3
85°	30.9	36.7	38.6	36.7	34.8
87.5°	13.5	15.5	11.6	7.7	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)