

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-SQP-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-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2663.1 lumens
Efficiency: N/A
Efficacy: 105.2 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

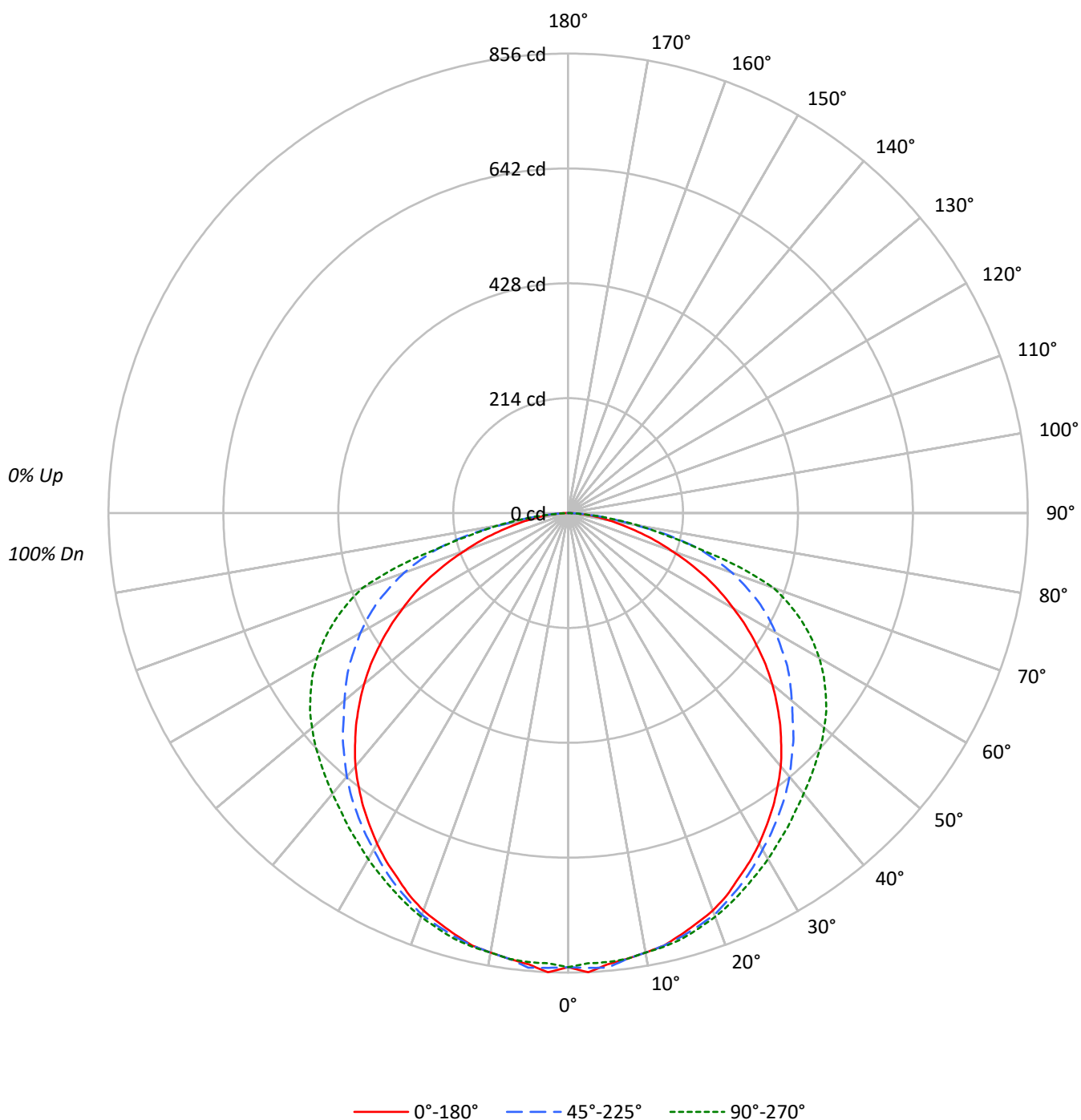
Input Watts (W): 25.32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1138	1138	1138
5°	1137	1143	1129
10°	1131	1125	1126
15°	1125	1122	1129
20°	1118	1119	1126
25°	1102	1106	1122
30°	1090	1091	1124
35°	1075	1084	1132
40°	1060	1078	1150
45°	1037	1073	1184
50°	1009	1071	1230
55°	970	1087	1281
60°	917	1101	1337
65°	856	1117	1386
70°	754	1115	1409
75°	639	1068	1069
80°	519	727	799
85°	397	398	365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.0
10°-20°	230.7	8.7
20°-30°	351.5	13.2
30°-40°	430.1	16.1
40°-50°	462.7	17.4
50°-60°	448.2	16.8
60°-70°	379.7	14.3
70°-80°	229.5	8.6
80°-90°	50.4	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°	662.5	24.9
0°-40°	1092.5	41.0
0°-60°	2003.5	75.2
0°-90°	2663.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	844	844	850	846	840	80
15°	813	815	817	819	821	230
25°	751	755	763	769	774	347
35°	666	670	685	703	714	417
45°	558	569	594	631	654	430
55°	428	447	498	556	585	382
65°	283	314	391	453	482	279
75°	134	182	246	250	244	144
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.9	845.9	845.9	845.9	845.9
2.5°	856.2	854.2	848.0	843.8	839.7
5°	843.8	843.8	850.0	845.9	839.7
7.5°	837.6	837.6	837.6	848.0	837.6
10°	831.4	833.5	831.4	839.7	831.4
12.5°	825.2	825.2	825.2	827.3	827.3
15°	812.8	814.9	816.9	819.0	821.1
17.5°	800.4	802.5	806.6	808.7	810.7
20°	788.0	790.0	796.3	796.3	800.4
22.5°	771.4	771.4	779.7	781.8	788.0
25°	750.8	754.9	763.2	769.4	773.5
27.5°	732.1	736.3	744.5	752.8	759.0
30°	711.5	715.6	723.9	736.3	744.5
32.5°	688.7	692.8	705.3	719.7	728.0
35°	666.0	670.1	684.6	703.2	713.5
37.5°	641.1	647.3	663.9	684.6	697.0
40°	616.3	622.5	641.1	663.9	682.5
42.5°	587.4	595.6	616.3	647.3	668.0
45°	558.4	568.8	593.6	630.8	653.5
47.5°	527.4	537.7	566.7	614.3	639.1
50°	496.4	508.8	543.9	595.6	622.5
52.5°	463.3	475.7	521.2	577.0	606.0
55°	428.1	446.7	498.4	556.3	585.3
57.5°	393.0	413.6	471.5	533.6	564.6
60°	355.7	380.5	446.7	508.8	539.8
62.5°	320.6	347.5	419.8	481.9	512.9
65°	283.3	314.4	390.9	452.9	481.9
67.5°	244.0	283.3	357.8	417.8	446.7
70°	204.8	250.3	324.7	380.5	407.4
72.5°	169.6	217.2	287.5	335.0	335.0
75°	134.4	182.0	246.1	250.3	244.0
77.5°	103.4	148.9	192.3	175.8	179.9
80°	76.5	113.8	122.0	128.2	132.4
82.5°	51.7	76.5	78.6	82.7	82.7
85°	33.1	39.3	41.4	39.3	37.2
87.5°	14.5	16.5	12.4	8.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)