

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-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-LD5-40-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2880.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

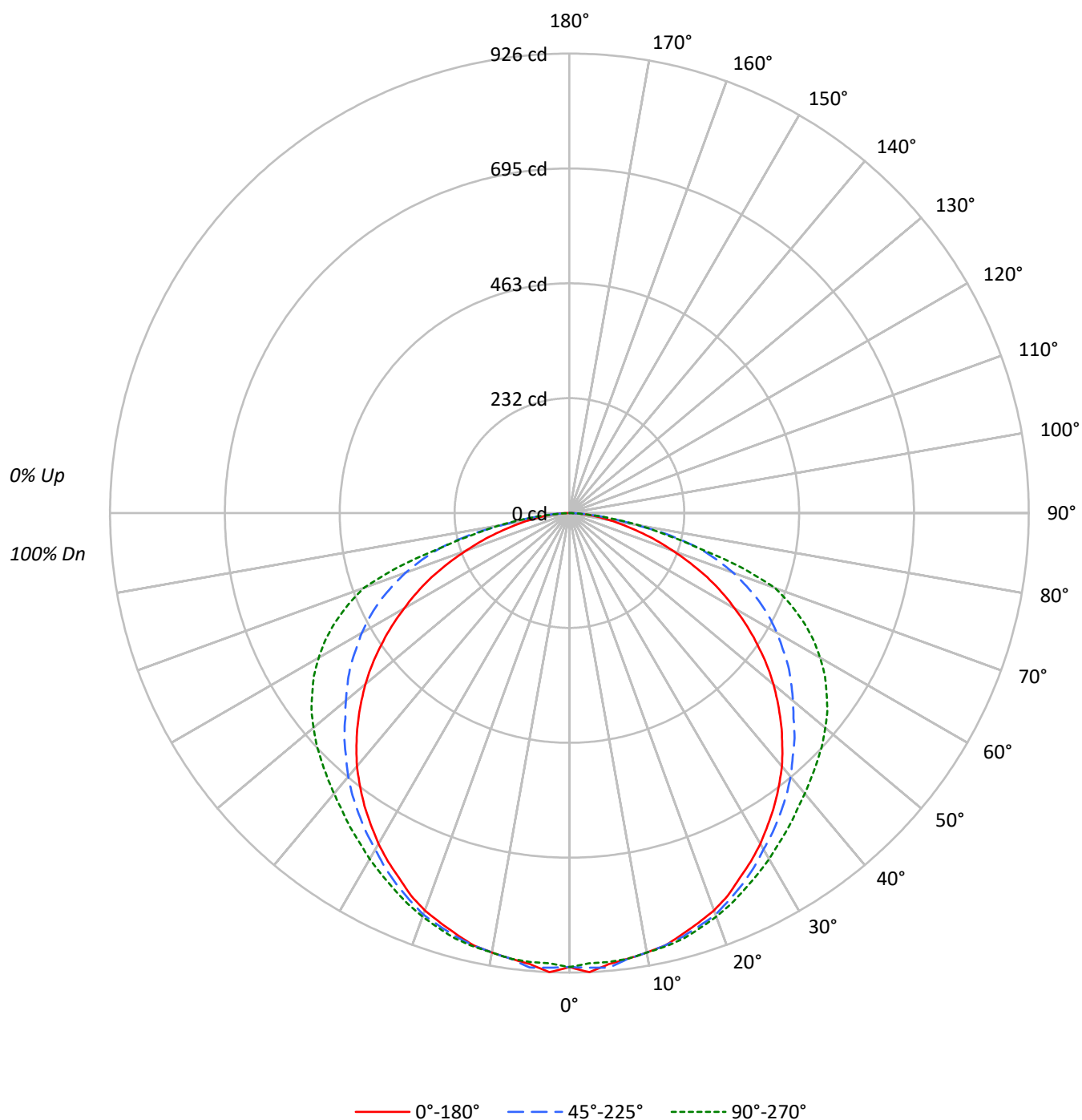
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1231	1231	1231
5°	1230	1236	1221
10°	1223	1217	1218
15°	1216	1213	1220
20°	1209	1210	1217
25°	1191	1196	1214
30°	1178	1180	1216
35°	1163	1172	1225
40°	1147	1166	1244
45°	1121	1160	1281
50°	1091	1158	1330
55°	1049	1175	1386
60°	992	1191	1446
65°	926	1208	1498
70°	815	1206	1524
75°	691	1155	1156
80°	562	786	864
85°	430	430	396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.0
10°-20°	249.4	8.7
20°-30°	380.1	13.2
30°-40°	465.1	16.1
40°-50°	500.4	17.4
50°-60°	484.7	16.8
60°-70°	410.6	14.3
70°-80°	248.2	8.6
80°-90°	54.5	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°	716.4	24.9
0°-40°	1181.5	41.0
0°-60°	2166.7	75.2
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	912	912	919	915	908	87
15°	879	881	884	886	888	248
25°	812	816	825	832	836	375
35°	720	725	740	760	772	450
45°	604	615	642	682	707	465
55°	463	483	539	602	633	414
65°	306	340	423	490	521	302
75°	145	197	266	271	264	156
85°	36	42	45	42	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.8	914.8	914.8	914.8	914.8
2.5°	926.0	923.7	917.0	912.5	908.1
5°	912.5	912.5	919.3	914.8	908.1
7.5°	905.8	905.8	905.8	917.0	905.8
10°	899.1	901.4	899.1	908.1	899.1
12.5°	892.4	892.4	892.4	894.7	894.7
15°	879.0	881.2	883.5	885.7	887.9
17.5°	865.6	867.8	872.3	874.5	876.8
20°	852.2	854.4	861.1	861.1	865.6
22.5°	834.3	834.3	843.2	845.5	852.2
25°	811.9	816.4	825.3	832.0	836.5
27.5°	791.8	796.2	805.2	814.1	820.8
30°	769.4	773.9	782.8	796.2	805.2
32.5°	744.8	749.3	762.7	778.4	787.3
35°	720.2	724.7	740.3	760.5	771.6
37.5°	693.4	700.1	718.0	740.3	753.7
40°	666.5	673.2	693.4	718.0	738.1
42.5°	635.2	644.2	666.5	700.1	722.4
45°	603.9	615.1	641.9	682.2	706.8
47.5°	570.3	581.5	612.8	664.3	691.1
50°	536.8	550.2	588.2	644.2	673.2
52.5°	501.0	514.4	563.6	624.0	655.3
55°	463.0	483.1	539.0	601.7	633.0
57.5°	425.0	447.3	510.0	577.1	610.6
60°	384.7	411.5	483.1	550.2	583.8
62.5°	346.7	375.8	454.0	521.1	554.7
65°	306.4	340.0	422.7	489.8	521.1
67.5°	263.9	306.4	386.9	451.8	483.1
70°	221.4	270.6	351.2	411.5	440.6
72.5°	183.4	234.8	310.9	362.3	362.3
75°	145.4	196.8	266.2	270.6	263.9
77.5°	111.8	161.0	208.0	190.1	194.6
80°	82.8	123.0	132.0	138.7	143.1
82.5°	55.9	82.8	85.0	89.5	89.5
85°	35.8	42.5	44.7	42.5	40.3
87.5°	15.7	17.9	13.4	8.9	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)