

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-LD5-45-RDP-UNV-L835-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-LD5-45-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

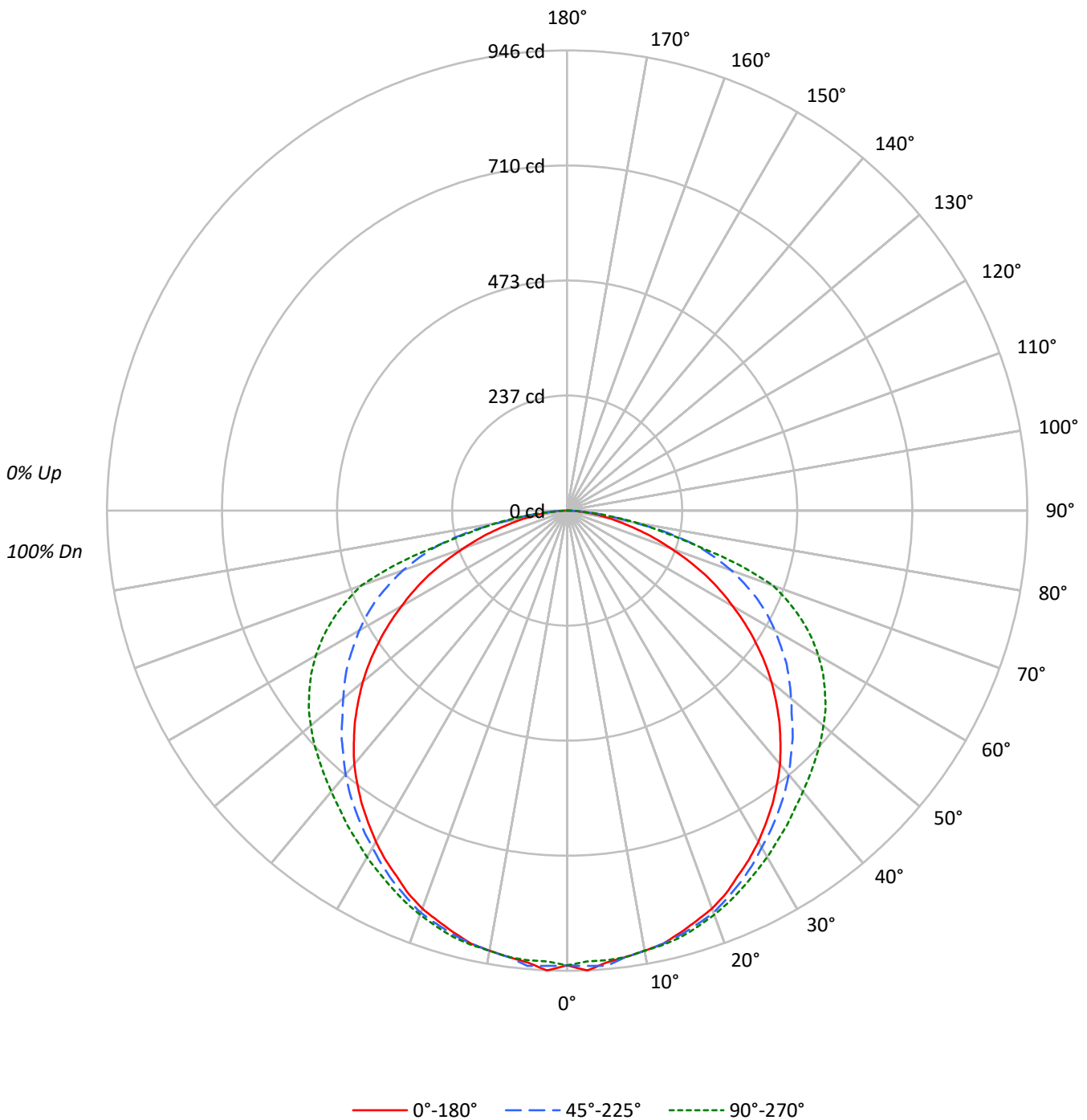
Lumens per Lamp: N/A
Luminaire Lumens: 2942.8 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.69
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



TEST NUMBER: P#
CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L835-CD1-U

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°	1258	1258	1258
5°	1257	1263	1248
10°	1250	1244	1244
15°	1243	1240	1247
20°	1235	1236	1244
25°	1217	1222	1240
30°	1204	1206	1242
35°	1188	1198	1251
40°	1172	1191	1271
45°	1146	1185	1309
50°	1115	1183	1359
55°	1072	1201	1416
60°	1014	1217	1477
65°	946	1235	1531
70°	833	1232	1557
75°	707	1180	1182
80°	574	803	883
85°	439	439	404



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.0
10°-20°	254.9	8.7
20°-30°	388.4	13.2
30°-40°	475.2	16.1
40°-50°	511.3	17.4
50°-60°	495.3	16.8
60°-70°	419.6	14.3
70°-80°	253.6	8.6
80°-90°	55.7	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°	732.0	24.9
0°-40°	1207.3	41.0
0°-60°	2213.9	75.2
0°-90°	2942.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	932	932	939	935	928	89
15°	898	900	903	905	907	254
25°	830	834	843	850	855	383
35°	736	740	756	777	788	460
45°	617	628	656	697	722	476
55°	473	494	551	615	647	423
65°	313	347	432	500	532	308
75°	149	201	272	276	270	160
85°	37	43	46	43	41	41
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45-RDP-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.7	934.7	934.7	934.7	934.7
2.5°	946.2	943.9	937.0	932.4	927.9
5°	932.4	932.4	939.3	934.7	927.9
7.5°	925.6	925.6	925.6	937.0	925.6
10°	918.7	921.0	918.7	927.9	918.7
12.5°	911.9	911.9	911.9	914.2	914.2
15°	898.2	900.4	902.7	905.0	907.3
17.5°	884.4	886.7	891.3	893.6	895.9
20°	870.7	873.0	879.9	879.9	884.4
22.5°	852.5	852.5	861.6	863.9	870.7
25°	829.6	834.2	843.3	850.2	854.7
27.5°	809.0	813.6	822.7	831.9	838.7
30°	786.2	790.7	799.9	813.6	822.7
32.5°	761.0	765.6	779.3	795.3	804.5
35°	735.9	740.5	756.5	777.0	788.5
37.5°	708.5	715.3	733.6	756.5	770.2
40°	681.0	687.9	708.5	733.6	754.2
42.5°	649.1	658.2	681.0	715.3	738.2
45°	617.1	628.5	655.9	697.0	722.2
47.5°	582.8	594.2	626.2	678.8	706.2
50°	548.5	562.2	601.1	658.2	687.9
52.5°	511.9	525.6	575.9	637.6	669.6
55°	473.1	493.6	550.8	614.8	646.8
57.5°	434.2	457.1	521.1	589.6	623.9
60°	393.1	420.5	493.6	562.2	596.5
62.5°	354.2	383.9	463.9	532.5	566.8
65°	313.1	347.4	431.9	500.5	532.5
67.5°	269.7	313.1	395.4	461.7	493.6
70°	226.3	276.5	358.8	420.5	450.2
72.5°	187.4	240.0	317.7	370.2	370.2
75°	148.6	201.1	272.0	276.5	269.7
77.5°	114.3	164.5	212.5	194.3	198.8
80°	84.6	125.7	134.8	141.7	146.3
82.5°	57.1	84.6	86.8	91.4	91.4
85°	36.6	43.4	45.7	43.4	41.1
87.5°	16.0	18.3	13.7	9.1	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)