

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-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-LD5-40-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

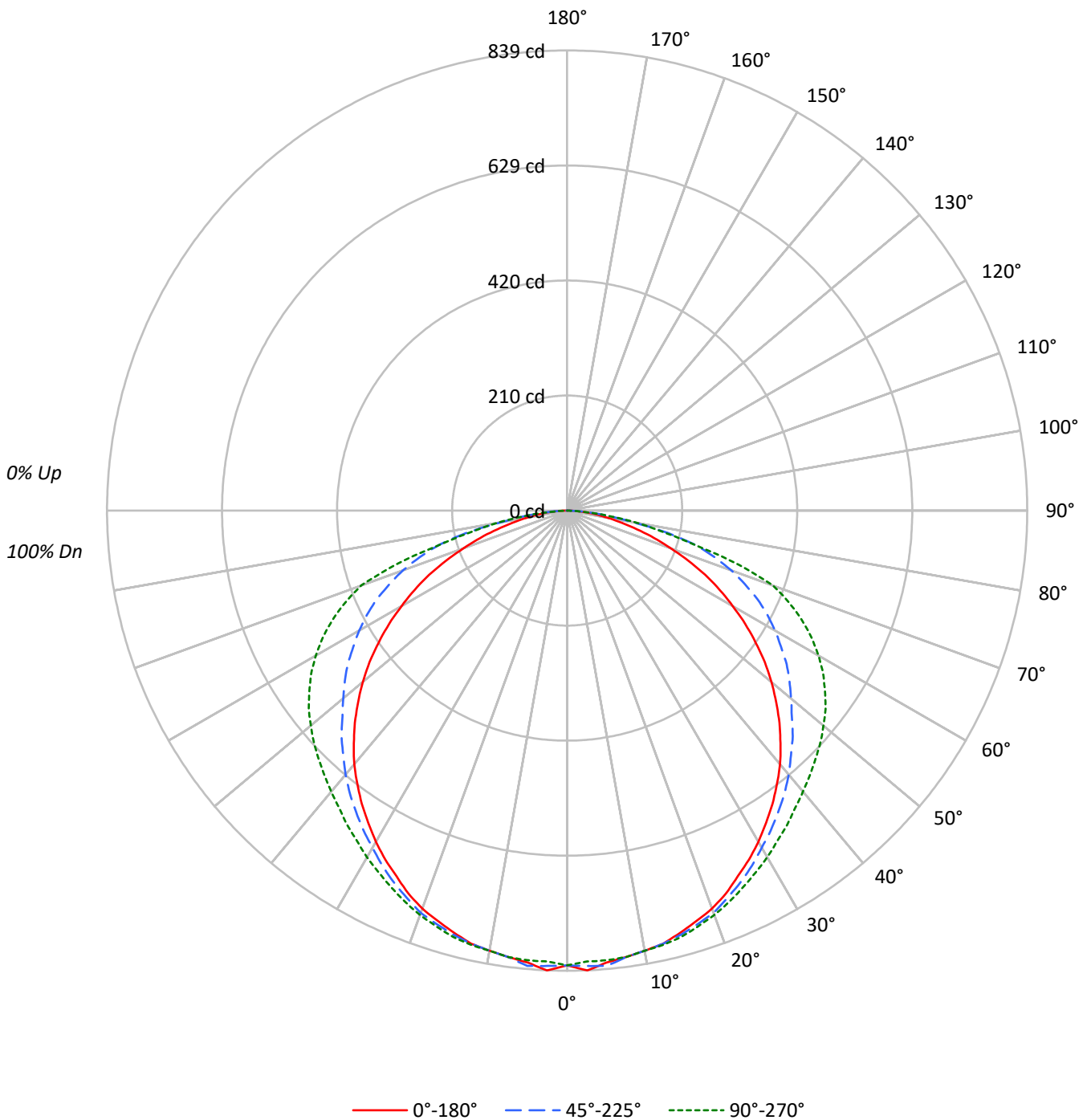
Lumens per Lamp: N/A
Luminaire Lumens: 2610.3 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (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°	1116	1116	1116
5°	1115	1120	1107
10°	1108	1103	1104
15°	1102	1100	1106
20°	1096	1096	1103
25°	1080	1084	1100
30°	1068	1070	1102
35°	1054	1063	1110
40°	1039	1057	1128
45°	1016	1051	1161
50°	989	1050	1205
55°	950	1065	1256
60°	899	1079	1310
65°	839	1095	1358
70°	739	1093	1381
75°	627	1047	1048
80°	509	712	783
85°	389	389	359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.0
10°-20°	226.1	8.7
20°-30°	344.5	13.2
30°-40°	421.5	16.1
40°-50°	453.6	17.4
50°-60°	439.3	16.8
60°-70°	372.2	14.3
70°-80°	225.0	8.6
80°-90°	49.4	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°	649.3	24.9
0°-40°	1070.8	41.0
0°-60°	1963.7	75.2
0°-90°	2610.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	827	827	833	829	823	79
15°	797	799	801	803	805	225
25°	736	740	748	754	758	340
35°	653	657	671	689	699	408
45°	547	558	582	618	641	422
55°	420	438	488	545	574	375
65°	278	308	383	444	472	273
75°	132	178	241	245	239	142
85°	32	38	40	38	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.1	829.1	829.1	829.1	829.1
2.5°	839.2	837.2	831.1	827.1	823.0
5°	827.1	827.1	833.2	829.1	823.0
7.5°	821.0	821.0	821.0	831.1	821.0
10°	814.9	816.9	814.9	823.0	814.9
12.5°	808.8	808.8	808.8	810.9	810.9
15°	796.7	798.7	800.7	802.8	804.8
17.5°	784.5	786.5	790.6	792.6	794.6
20°	772.3	774.4	780.5	780.5	784.5
22.5°	756.1	756.1	764.2	766.3	772.3
25°	735.9	739.9	748.0	754.1	758.2
27.5°	717.6	721.7	729.8	737.9	744.0
30°	697.3	701.4	709.5	721.7	729.8
32.5°	675.0	679.1	691.3	705.4	713.6
35°	652.7	656.8	671.0	689.2	699.4
37.5°	628.4	634.5	650.7	671.0	683.1
40°	604.1	610.2	628.4	650.7	669.0
42.5°	575.7	583.8	604.1	634.5	654.8
45°	547.3	557.5	581.8	618.3	640.6
47.5°	516.9	527.1	555.4	602.1	626.4
50°	486.5	498.7	533.1	583.8	610.2
52.5°	454.1	466.2	510.8	565.6	594.0
55°	419.6	437.9	488.5	545.3	573.7
57.5°	385.2	405.4	462.2	523.0	553.4
60°	348.7	373.0	437.9	498.7	529.1
62.5°	314.2	340.6	411.5	472.3	502.7
65°	277.7	308.1	383.1	443.9	472.3
67.5°	239.2	277.7	350.7	409.5	437.9
70°	200.7	245.3	318.3	373.0	399.3
72.5°	166.2	212.9	281.8	328.4	328.4
75°	131.8	178.4	241.2	245.3	239.2
77.5°	101.4	146.0	188.5	172.3	176.4
80°	75.0	111.5	119.6	125.7	129.7
82.5°	50.7	75.0	77.0	81.1	81.1
85°	32.4	38.5	40.5	38.5	36.5
87.5°	14.2	16.2	12.2	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)