

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-LD5-50SE-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-LD5-50SE-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.2 lumens
Efficiency: N/A
Efficacy: 71.9 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

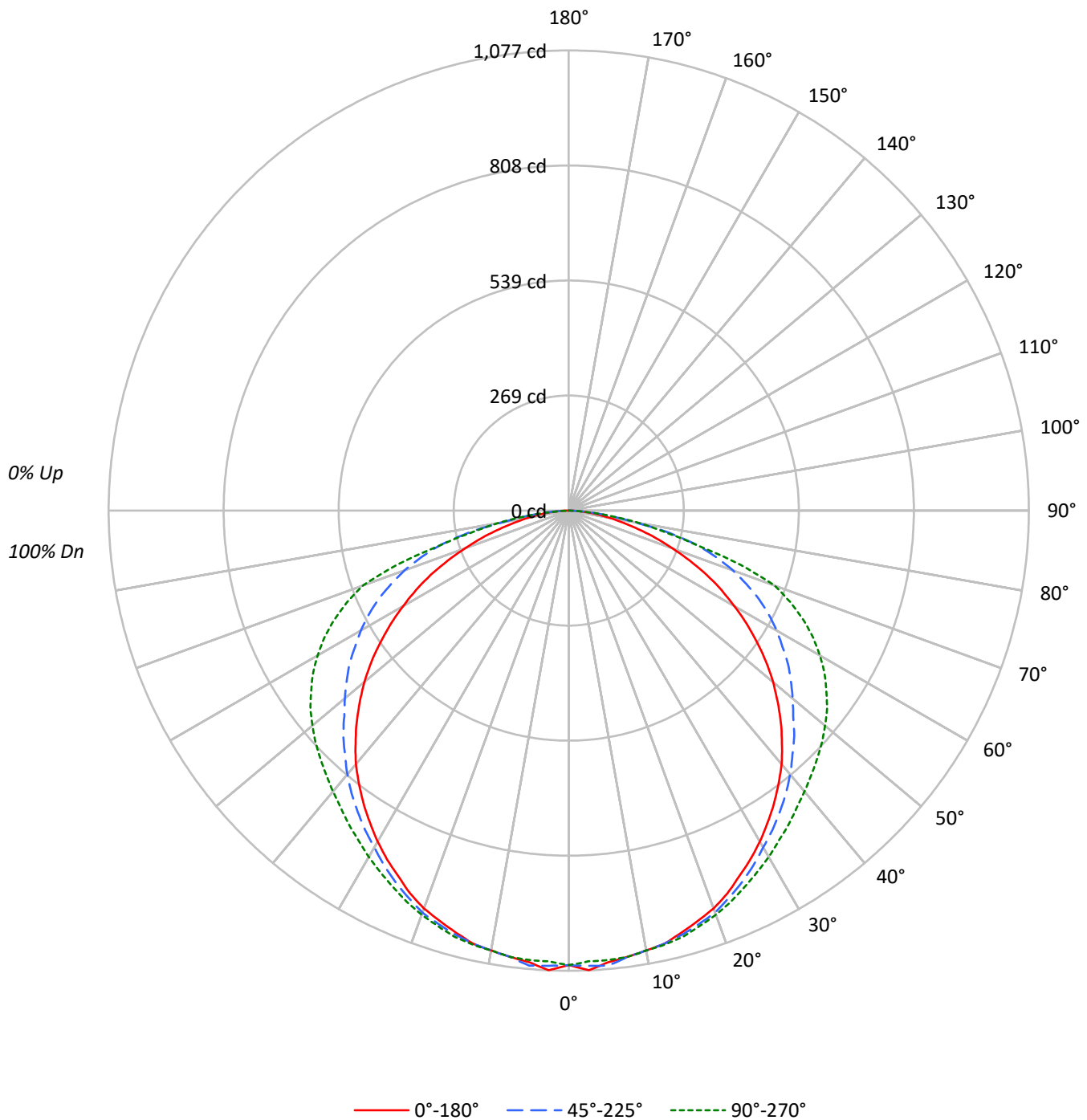
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1431	1431	1431
5°	1430	1437	1420
10°	1422	1415	1416
15°	1414	1411	1419
20°	1406	1407	1416
25°	1385	1390	1411
30°	1370	1372	1414
35°	1352	1363	1424
40°	1333	1356	1447
45°	1304	1349	1489
50°	1269	1347	1547
55°	1219	1367	1612
60°	1154	1385	1681
65°	1077	1405	1742
70°	948	1402	1772
75°	804	1343	1345
80°	653	914	1005
85°	499	500	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.0
10°-20°	290.1	8.7
20°-30°	442.0	13.2
30°-40°	540.8	16.1
40°-50°	581.9	17.4
50°-60°	563.7	16.8
60°-70°	477.5	14.3
70°-80°	288.7	8.6
80°-90°	63.4	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°	833.1	24.9
0°-40°	1373.9	41.0
0°-60°	2519.6	75.2
0°-90°	3349.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1061	1061	1069	1064	1056	101
15°	1022	1025	1027	1030	1033	289
25°	944	949	960	968	973	436
35°	838	843	861	884	897	524
45°	702	715	746	793	822	541
55°	538	562	627	700	736	481
65°	356	395	492	570	606	351
75°	169	229	310	315	307	182
85°	42	49	52	49	47	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1076.8	1074.2	1066.4	1061.2	1056.0
5°	1061.2	1061.2	1069.0	1063.8	1056.0
7.5°	1053.4	1053.4	1053.4	1066.4	1053.4
10°	1045.6	1048.2	1045.6	1056.0	1045.6
12.5°	1037.8	1037.8	1037.8	1040.4	1040.4
15°	1022.2	1024.8	1027.4	1030.0	1032.6
17.5°	1006.6	1009.2	1014.4	1017.0	1019.6
20°	991.0	993.6	1001.4	1001.4	1006.6
22.5°	970.1	970.1	980.5	983.2	991.0
25°	944.1	949.3	959.7	967.5	972.7
27.5°	920.7	925.9	936.3	946.7	954.5
30°	894.7	899.9	910.3	925.9	936.3
32.5°	866.1	871.3	886.9	905.1	915.5
35°	837.5	842.7	860.9	884.3	897.3
37.5°	806.3	814.1	834.9	860.9	876.5
40°	775.1	782.9	806.3	834.9	858.3
42.5°	738.7	749.1	775.1	814.1	840.1
45°	702.3	715.3	746.5	793.3	821.9
47.5°	663.2	676.2	712.7	772.5	803.7
50°	624.2	639.8	684.0	749.1	782.9
52.5°	582.6	598.2	655.4	725.7	762.1
55°	538.4	561.8	626.8	699.6	736.1
57.5°	494.2	520.2	593.0	671.0	710.1
60°	447.4	478.6	561.8	639.8	678.8
62.5°	403.1	437.0	528.0	606.0	645.0
65°	356.3	395.3	491.6	569.6	606.0
67.5°	306.9	356.3	450.0	525.4	561.8
70°	257.5	314.7	408.3	478.6	512.4
72.5°	213.3	273.1	361.5	421.4	421.4
75°	169.1	228.9	309.5	314.7	306.9
77.5°	130.0	187.3	241.9	221.1	226.3
80°	96.2	143.1	153.5	161.3	166.5
82.5°	65.0	96.2	98.8	104.0	104.0
85°	41.6	49.4	52.0	49.4	46.8
87.5°	18.2	20.8	15.6	10.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)