

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-LD5-50-RDP-UNV-L840-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-LD5-50-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3350.3 lumens
Efficiency: N/A
Efficacy: 82.4 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

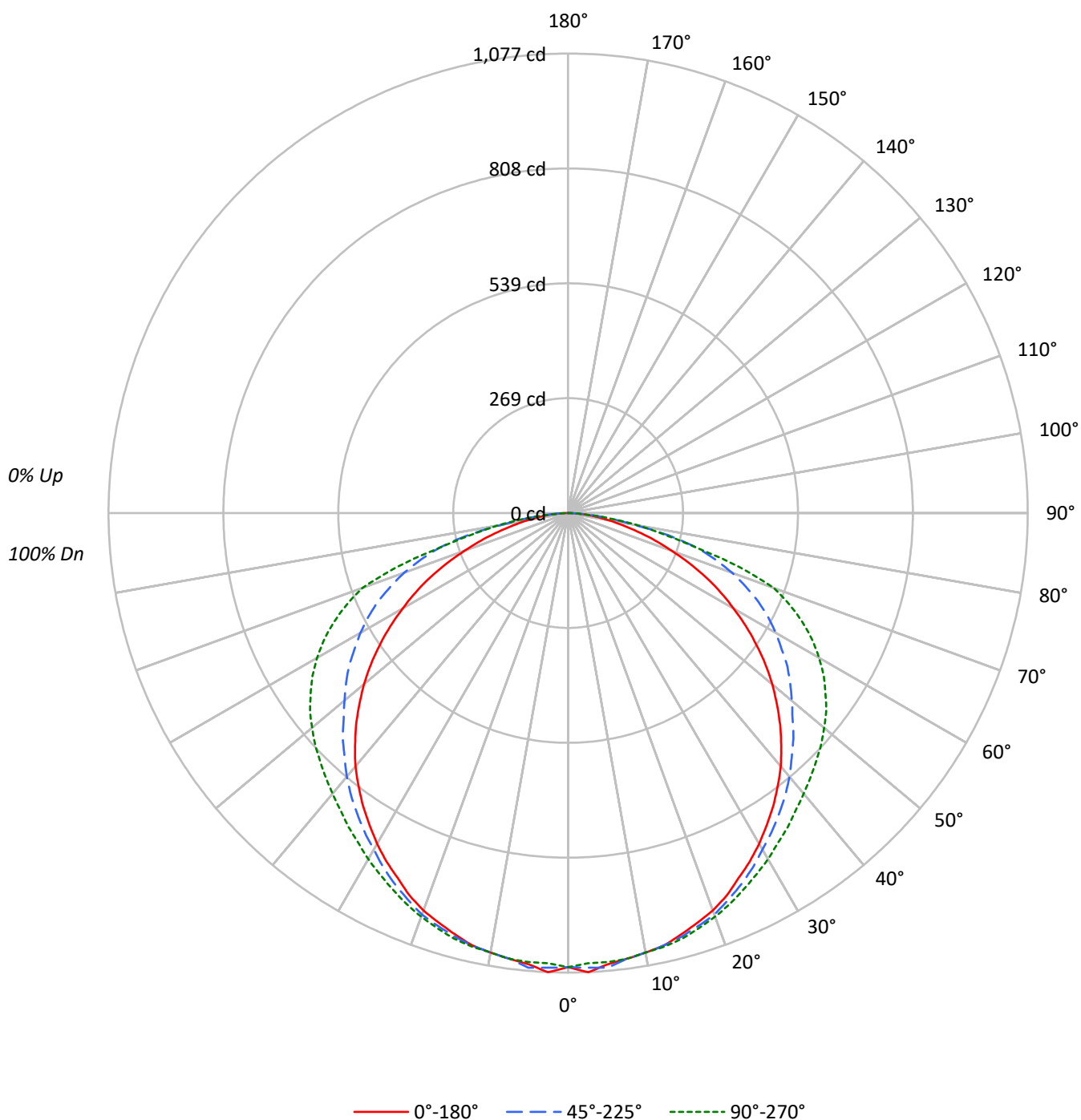
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1432	1432	1432
5°	1431	1438	1420
10°	1423	1416	1416
15°	1415	1411	1420
20°	1407	1407	1416
25°	1386	1391	1412
30°	1371	1373	1414
35°	1352	1364	1424
40°	1334	1356	1447
45°	1304	1349	1490
50°	1269	1347	1547
55°	1220	1367	1612
60°	1154	1385	1682
65°	1077	1406	1743
70°	948	1403	1773
75°	804	1344	1345
80°	654	914	1005
85°	499	500	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.0
10°-20°	290.2	8.7
20°-30°	442.2	13.2
30°-40°	541.0	16.1
40°-50°	582.1	17.4
50°-60°	563.9	16.8
60°-70°	477.7	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°	833.4	24.9
0°-40°	1374.4	41.0
0°-60°	2520.4	75.2
0°-90°	3350.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1062	1062	1069	1064	1056	101
15°	1022	1025	1028	1030	1033	289
25°	944	950	960	968	973	436
35°	838	843	861	885	898	524
45°	702	716	747	794	822	541
55°	539	562	627	700	736	481
65°	356	396	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°	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1077.2	1074.6	1066.7	1061.5	1056.3
5°	1061.5	1061.5	1069.4	1064.1	1056.3
7.5°	1053.7	1053.7	1053.7	1066.7	1053.7
10°	1045.9	1048.5	1045.9	1056.3	1045.9
12.5°	1038.1	1038.1	1038.1	1040.7	1040.7
15°	1022.5	1025.1	1027.7	1030.3	1032.9
17.5°	1006.9	1009.5	1014.7	1017.3	1019.9
20°	991.3	993.9	1001.7	1001.7	1006.9
22.5°	970.5	970.5	980.9	983.5	991.3
25°	944.5	949.7	960.1	967.9	973.1
27.5°	921.0	926.3	936.7	947.1	954.9
30°	895.0	900.2	910.6	926.3	936.7
32.5°	866.4	871.6	887.2	905.4	915.8
35°	837.8	843.0	861.2	884.6	897.6
37.5°	806.6	814.4	835.2	861.2	876.8
40°	775.3	783.2	806.6	835.2	858.6
42.5°	738.9	749.3	775.3	814.4	840.4
45°	702.5	715.5	746.7	793.6	822.2
47.5°	663.5	676.5	712.9	772.7	804.0
50°	624.4	640.0	684.3	749.3	783.2
52.5°	582.8	598.4	655.7	725.9	762.3
55°	538.6	562.0	627.0	699.9	736.3
57.5°	494.3	520.4	593.2	671.3	710.3
60°	447.5	478.7	562.0	640.0	679.1
62.5°	403.3	437.1	528.2	606.2	645.3
65°	356.5	395.5	491.7	569.8	606.2
67.5°	307.0	356.5	450.1	525.6	562.0
70°	257.6	314.8	408.5	478.7	512.6
72.5°	213.3	273.2	361.7	421.5	421.5
75°	169.1	229.0	309.6	314.8	307.0
77.5°	130.1	187.3	242.0	221.2	226.4
80°	96.3	143.1	153.5	161.3	166.5
82.5°	65.0	96.3	98.9	104.1	104.1
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)