

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-SQP-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-LD5-45-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3406.3 lumens
Efficiency: N/A
Efficacy: 95.4 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

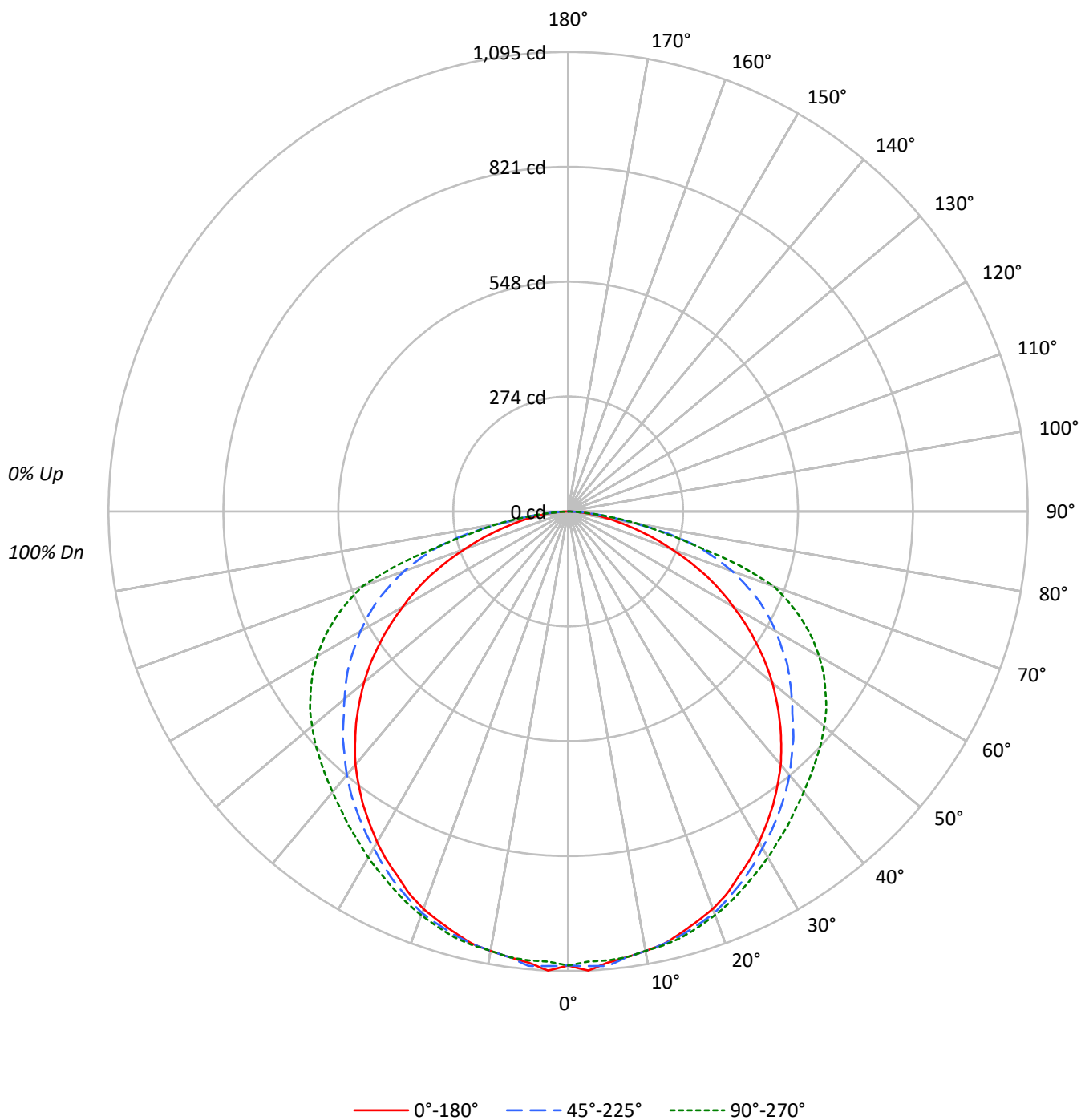
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1456	1456	1456
5°	1455	1462	1444
10°	1446	1439	1440
15°	1438	1435	1444
20°	1430	1431	1440
25°	1409	1414	1435
30°	1394	1396	1438
35°	1375	1387	1448
40°	1356	1379	1472
45°	1326	1372	1515
50°	1291	1370	1573
55°	1240	1390	1639
60°	1174	1408	1710
65°	1095	1429	1772
70°	964	1426	1802
75°	817	1366	1367
80°	664	930	1022
85°	508	508	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.0
10°-20°	295.0	8.7
20°-30°	449.6	13.2
30°-40°	550.1	16.1
40°-50°	591.9	17.4
50°-60°	573.3	16.8
60°-70°	485.7	14.3
70°-80°	293.6	8.6
80°-90°	64.5	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°	847.3	24.9
0°-40°	1397.4	41.0
0°-60°	2562.6	75.2
0°-90°	3406.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1079	1079	1087	1082	1074	103
15°	1040	1042	1045	1048	1050	294
25°	960	966	976	984	989	443
35°	852	857	876	899	913	533
45°	714	728	759	807	836	551
55°	548	571	638	712	749	489
65°	362	402	500	579	616	357
75°	172	233	315	320	312	185
85°	42	50	53	50	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.9	1081.9	1081.9	1081.9	1081.9
2.5°	1095.2	1092.5	1084.6	1079.3	1074.0
5°	1079.3	1079.3	1087.2	1081.9	1074.0
7.5°	1071.4	1071.4	1071.4	1084.6	1071.4
10°	1063.4	1066.1	1063.4	1074.0	1063.4
12.5°	1055.5	1055.5	1055.5	1058.1	1058.1
15°	1039.6	1042.3	1044.9	1047.5	1050.2
17.5°	1023.7	1026.4	1031.7	1034.3	1037.0
20°	1007.9	1010.5	1018.4	1018.4	1023.7
22.5°	986.7	986.7	997.3	999.9	1007.9
25°	960.2	965.5	976.1	984.1	989.3
27.5°	936.4	941.7	952.3	962.9	970.8
30°	910.0	915.3	925.9	941.7	952.3
32.5°	880.9	886.2	902.1	920.6	931.2
35°	851.8	857.1	875.6	899.4	912.6
37.5°	820.0	828.0	849.1	875.6	891.5
40°	788.3	796.2	820.0	849.1	873.0
42.5°	751.3	761.9	788.3	828.0	854.4
45°	714.2	727.5	759.2	806.8	835.9
47.5°	674.6	687.8	724.8	785.7	817.4
50°	634.9	650.7	695.7	761.9	796.2
52.5°	592.6	608.4	666.6	738.0	775.1
55°	547.6	571.4	637.5	711.6	748.6
57.5°	502.6	529.1	603.1	682.5	722.2
60°	455.0	486.7	571.4	650.7	690.4
62.5°	410.0	444.4	537.0	616.4	656.0
65°	362.4	402.1	500.0	579.3	616.4
67.5°	312.1	362.4	457.6	534.4	571.4
70°	261.9	320.1	415.3	486.7	521.1
72.5°	216.9	277.8	367.7	428.5	428.5
75°	171.9	232.8	314.8	320.1	312.1
77.5°	132.3	190.5	246.0	224.9	230.1
80°	97.9	145.5	156.1	164.0	169.3
82.5°	66.1	97.9	100.5	105.8	105.8
85°	42.3	50.3	52.9	50.3	47.6
87.5°	18.5	21.2	15.9	10.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)