

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-LD5-60SE-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-LD5-60SE-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

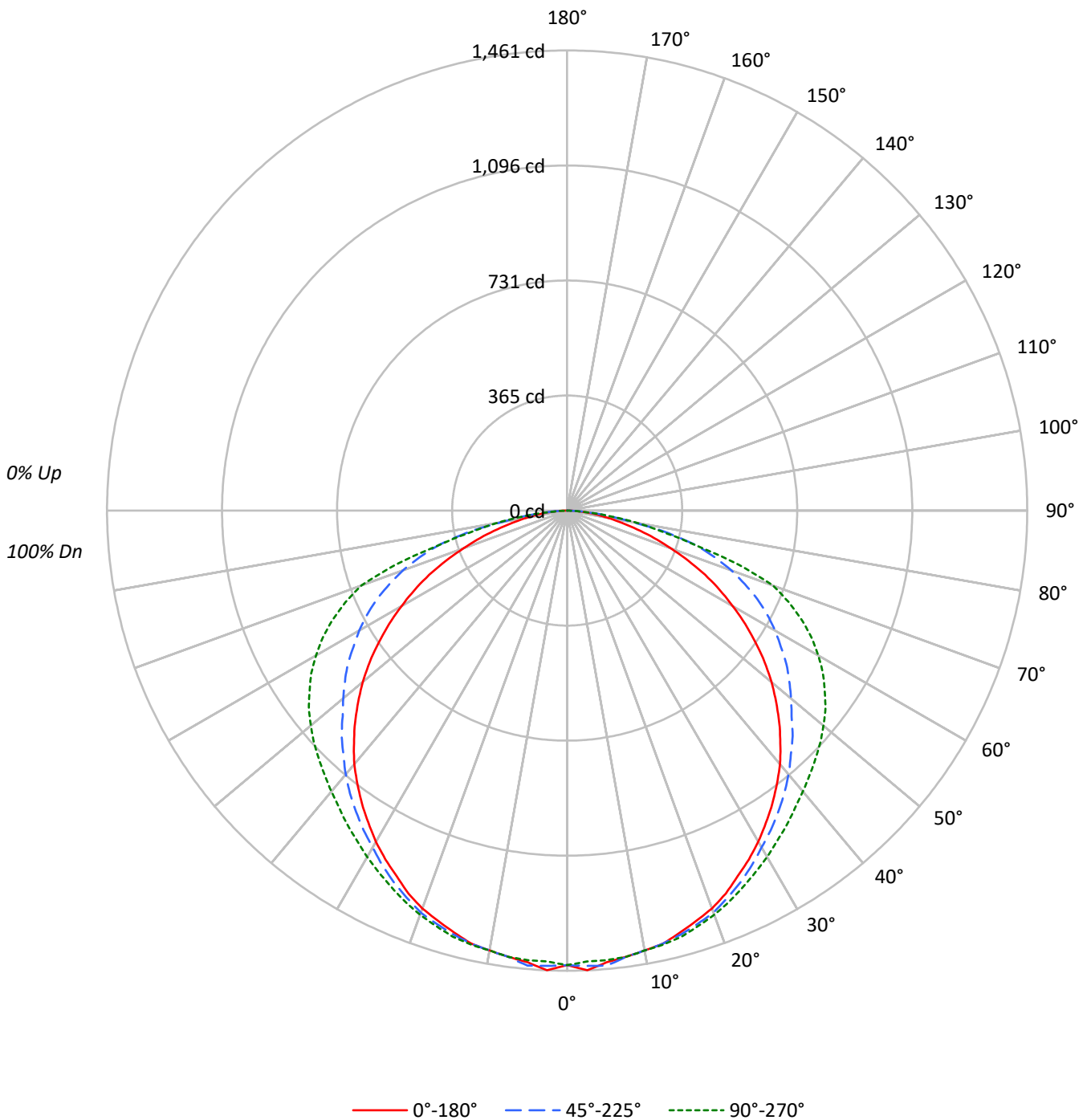
Lumens per Lamp: N/A
Luminaire Lumens: 4543.5 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 60
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-LD5-60SE-SQP-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-SQP-UNV-L850-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°	1942	1942	1942
5°	1940	1950	1926
10°	1929	1920	1921
15°	1919	1914	1925
20°	1907	1908	1920
25°	1880	1886	1914
30°	1859	1862	1918
35°	1834	1850	1932
40°	1809	1839	1963
45°	1769	1830	2021
50°	1721	1827	2098
55°	1654	1854	2186
60°	1565	1878	2281
65°	1461	1906	2364
70°	1286	1902	2404
75°	1091	1822	1824
80°	886	1240	1363
85°	678	679	624



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-SQP-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.0
10°-20°	393.5	8.7
20°-30°	599.7	13.2
30°-40°	733.7	16.1
40°-50°	789.5	17.4
50°-60°	764.7	16.8
60°-70°	647.8	14.3
70°-80°	391.6	8.6
80°-90°	86.0	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°	1130.2	24.9
0°-40°	1863.9	41.0
0°-60°	3418.1	75.2
0°-90°	4543.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1440	1440	1450	1443	1433	137
15°	1387	1390	1394	1397	1401	392
25°	1281	1288	1302	1313	1320	591
35°	1136	1143	1168	1200	1217	711
45°	953	970	1013	1076	1115	734
55°	730	762	850	949	999	652
65°	483	536	667	773	822	476
75°	229	310	420	427	416	246
85°	56	67	71	67	64	64
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60SE-SQP-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.1	1443.1	1443.1	1443.1	1443.1
2.5°	1460.8	1457.3	1446.7	1439.6	1432.6
5°	1439.6	1439.6	1450.2	1443.1	1432.6
7.5°	1429.0	1429.0	1429.0	1446.7	1429.0
10°	1418.4	1422.0	1418.4	1432.6	1418.4
12.5°	1407.9	1407.9	1407.9	1411.4	1411.4
15°	1386.7	1390.2	1393.7	1397.3	1400.8
17.5°	1365.5	1369.0	1376.1	1379.6	1383.2
20°	1344.3	1347.9	1358.5	1358.5	1365.5
22.5°	1316.1	1316.1	1330.2	1333.8	1344.3
25°	1280.8	1287.9	1302.0	1312.6	1319.6
27.5°	1249.1	1256.1	1270.2	1284.4	1294.9
30°	1213.8	1220.9	1235.0	1256.1	1270.2
32.5°	1175.0	1182.0	1203.2	1227.9	1242.0
35°	1136.2	1143.2	1167.9	1199.7	1217.3
37.5°	1093.8	1104.4	1132.6	1167.9	1189.1
40°	1051.5	1062.1	1093.8	1132.6	1164.4
42.5°	1002.1	1016.2	1051.5	1104.4	1139.7
45°	952.7	970.3	1012.7	1076.2	1115.0
47.5°	899.8	917.4	966.8	1048.0	1090.3
50°	846.8	868.0	928.0	1016.2	1062.1
52.5°	790.4	811.5	889.2	984.4	1033.8
55°	730.4	762.1	850.4	949.2	998.6
57.5°	670.4	705.7	804.5	910.3	963.3
60°	606.9	649.2	762.1	868.0	920.9
62.5°	546.9	592.8	716.3	822.1	875.1
65°	483.4	536.3	666.9	772.7	822.1
67.5°	416.4	483.4	610.4	712.8	762.1
70°	349.3	426.9	554.0	649.2	695.1
72.5°	289.3	370.5	490.5	571.6	571.6
75°	229.4	310.5	419.9	426.9	416.4
77.5°	176.4	254.0	328.1	299.9	307.0
80°	130.6	194.1	208.2	218.8	225.8
82.5°	88.2	130.6	134.1	141.1	141.1
85°	56.5	67.0	70.6	67.0	63.5
87.5°	24.7	28.2	21.2	14.1	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)