

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-LD5-65-SQP-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-LD5-65-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

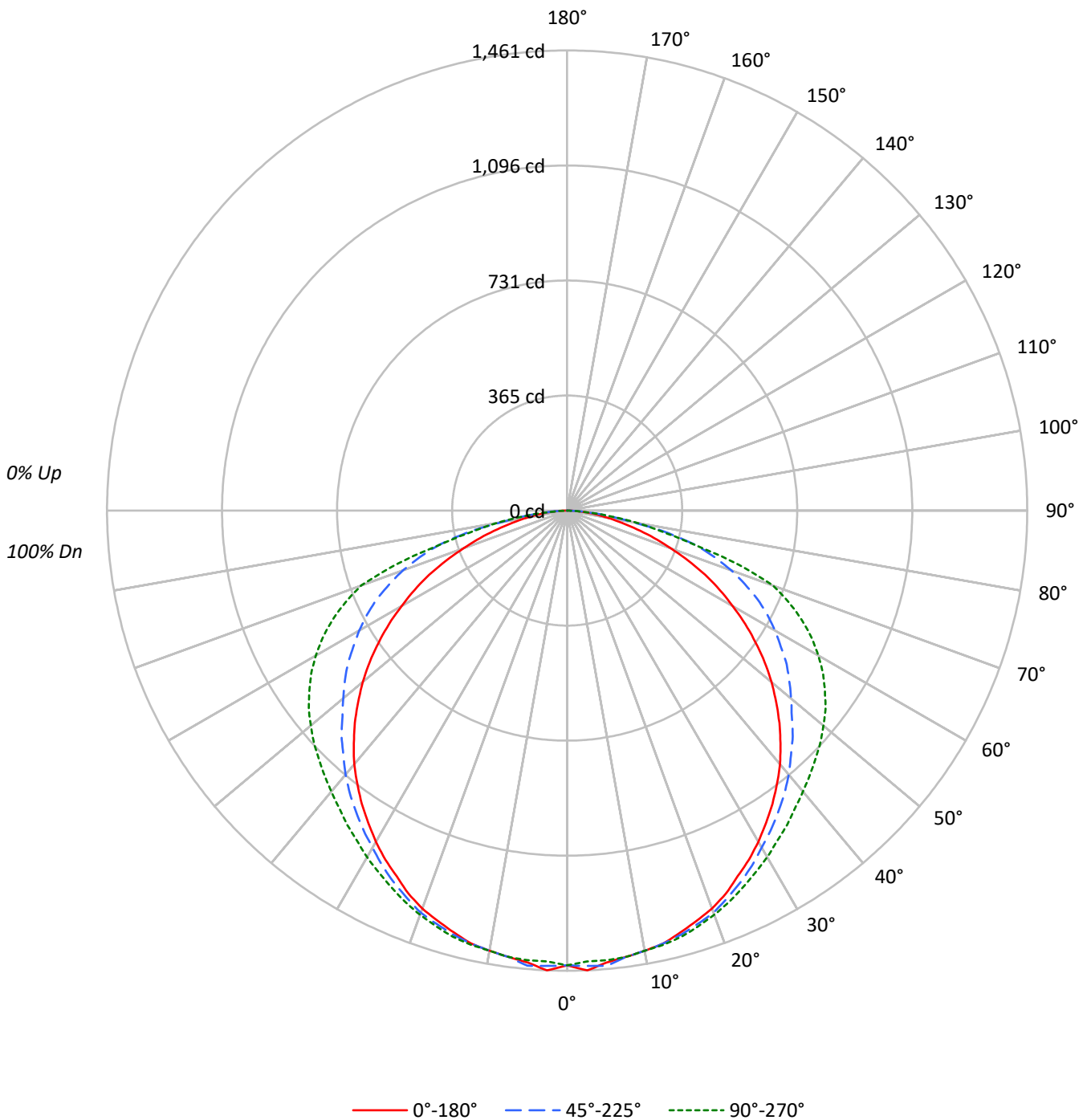
Lumens per Lamp: N/A
Luminaire Lumens: 4544.9 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 57.64
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°	1942	1942	1942
5°	1941	1950	1927
10°	1930	1921	1922
15°	1919	1915	1926
20°	1908	1909	1921
25°	1880	1887	1915
30°	1860	1862	1919
35°	1835	1850	1932
40°	1809	1840	1963
45°	1769	1830	2021
50°	1722	1828	2099
55°	1655	1855	2187
60°	1566	1879	2281
65°	1461	1907	2365
70°	1286	1903	2405
75°	1091	1823	1825
80°	886	1240	1364
85°	678	679	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.0
10°-20°	393.6	8.7
20°-30°	599.8	13.2
30°-40°	733.9	16.1
40°-50°	789.7	17.4
50°-60°	765.0	16.8
60°-70°	648.0	14.3
70°-80°	391.7	8.6
80°-90°	86.1	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°	1130.5	24.9
0°-40°	1864.5	41.0
0°-60°	3419.1	75.2
0°-90°	4544.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4544.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1440	1440	1451	1444	1433	137
15°	1387	1391	1394	1398	1401	392
25°	1281	1288	1302	1313	1320	591
35°	1136	1144	1168	1200	1218	711
45°	953	971	1013	1076	1115	734
55°	731	762	851	949	999	653
65°	484	536	667	773	822	476
75°	229	311	420	427	416	247
85°	56	67	71	67	64	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.6	1443.6	1443.6	1443.6	1443.6
2.5°	1461.2	1457.7	1447.1	1440.0	1433.0
5°	1440.0	1440.0	1450.6	1443.6	1433.0
7.5°	1429.5	1429.5	1429.5	1447.1	1429.5
10°	1418.9	1422.4	1418.9	1433.0	1418.9
12.5°	1408.3	1408.3	1408.3	1411.8	1411.8
15°	1387.1	1390.6	1394.2	1397.7	1401.2
17.5°	1365.9	1369.5	1376.5	1380.0	1383.6
20°	1344.7	1348.3	1358.9	1358.9	1365.9
22.5°	1316.5	1316.5	1330.6	1334.2	1344.7
25°	1281.2	1288.3	1302.4	1313.0	1320.0
27.5°	1249.5	1256.5	1270.6	1284.7	1295.3
30°	1214.2	1221.2	1235.3	1256.5	1270.6
32.5°	1175.3	1182.4	1203.6	1228.3	1242.4
35°	1136.5	1143.6	1168.3	1200.0	1217.7
37.5°	1094.2	1104.7	1133.0	1168.3	1189.5
40°	1051.8	1062.4	1094.2	1133.0	1164.7
42.5°	1002.4	1016.5	1051.8	1104.7	1140.0
45°	953.0	970.6	1013.0	1076.5	1115.3
47.5°	900.0	917.7	967.1	1048.3	1090.6
50°	847.1	868.3	928.3	1016.5	1062.4
52.5°	790.6	811.8	889.4	984.7	1034.2
55°	730.6	762.4	850.6	949.4	998.9
57.5°	670.6	705.9	804.7	910.6	963.6
60°	607.1	649.4	762.4	868.3	921.2
62.5°	547.1	593.0	716.5	822.4	875.3
65°	483.5	536.5	667.1	773.0	822.4
67.5°	416.5	483.5	610.6	713.0	762.4
70°	349.4	427.1	554.1	649.4	695.3
72.5°	289.4	370.6	490.6	571.8	571.8
75°	229.4	310.6	420.0	427.1	416.5
77.5°	176.5	254.1	328.2	300.0	307.1
80°	130.6	194.1	208.2	218.8	225.9
82.5°	88.2	130.6	134.1	141.2	141.2
85°	56.5	67.1	70.6	67.1	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)