

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-LD5-75-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-LD5-75-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

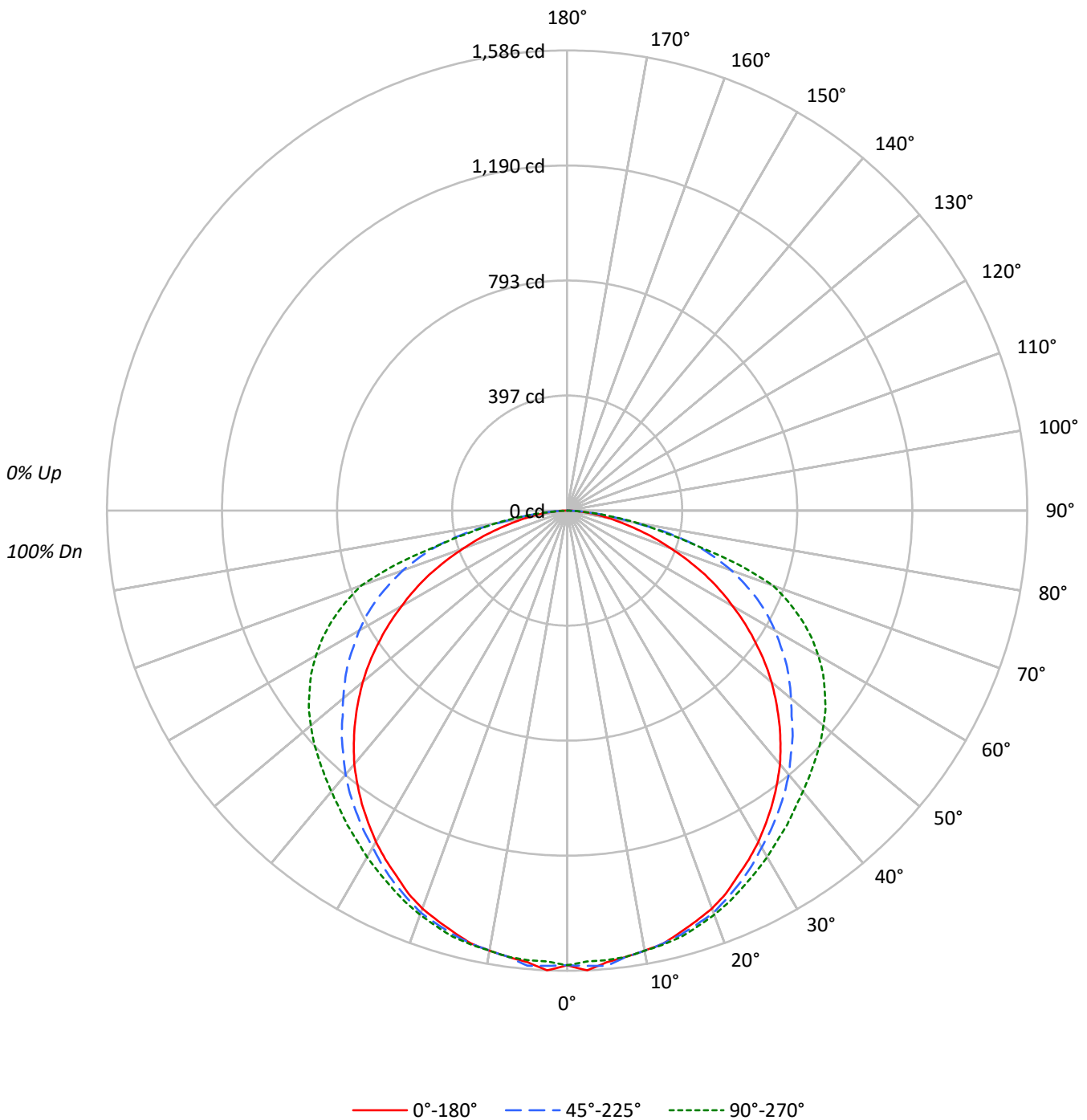
Lumens per Lamp: N/A
Luminaire Lumens: 4932.9 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 69.06
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°	2108	2108	2108
5°	2106	2117	2091
10°	2095	2085	2086
15°	2083	2078	2090
20°	2071	2072	2085
25°	2041	2048	2079
30°	2018	2021	2083
35°	1991	2008	2097
40°	1964	1997	2131
45°	1920	1987	2194
50°	1869	1984	2278
55°	1796	2013	2374
60°	1699	2039	2476
65°	1586	2070	2567
70°	1396	2065	2610
75°	1184	1978	1980
80°	962	1346	1480
85°	736	736	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	3.0
10°-20°	427.2	8.7
20°-30°	651.0	13.2
30°-40°	796.6	16.1
40°-50°	857.1	17.4
50°-60°	830.3	16.8
60°-70°	703.3	14.3
70°-80°	425.1	8.6
80°-90°	93.4	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°	1227.0	24.9
0°-40°	2023.6	41.0
0°-60°	3711.0	75.2
0°-90°	4932.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4932.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1563	1563	1574	1567	1555	149
15°	1506	1509	1513	1517	1521	425
25°	1391	1398	1414	1425	1433	642
35°	1234	1241	1268	1302	1322	772
45°	1034	1054	1099	1168	1210	797
55°	793	828	923	1030	1084	708
65°	525	582	724	839	893	517
75°	249	337	456	464	452	268
85°	61	73	77	73	69	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.8	1566.8	1566.8	1566.8	1566.8
2.5°	1586.0	1582.1	1570.6	1563.0	1555.3
5°	1563.0	1563.0	1574.5	1566.8	1555.3
7.5°	1551.5	1551.5	1551.5	1570.6	1551.5
10°	1540.0	1543.8	1540.0	1555.3	1540.0
12.5°	1528.5	1528.5	1528.5	1532.3	1532.3
15°	1505.5	1509.3	1513.2	1517.0	1520.8
17.5°	1482.5	1486.4	1494.0	1497.9	1501.7
20°	1459.5	1463.4	1474.9	1474.9	1482.5
22.5°	1428.9	1428.9	1444.2	1448.0	1459.5
25°	1390.6	1398.2	1413.6	1425.1	1432.7
27.5°	1356.1	1363.8	1379.1	1394.4	1405.9
30°	1317.8	1325.5	1340.8	1363.8	1379.1
32.5°	1275.7	1283.3	1306.3	1333.1	1348.4
35°	1233.5	1241.2	1268.0	1302.5	1321.6
37.5°	1187.6	1199.0	1229.7	1268.0	1291.0
40°	1141.6	1153.1	1187.6	1229.7	1264.2
42.5°	1088.0	1103.3	1141.6	1199.0	1237.4
45°	1034.3	1053.5	1099.4	1168.4	1210.5
47.5°	976.9	996.0	1049.6	1137.8	1183.7
50°	919.4	942.4	1007.5	1103.3	1153.1
52.5°	858.1	881.1	965.4	1068.8	1122.4
55°	793.0	827.5	923.2	1030.5	1084.1
57.5°	727.9	766.2	873.4	988.4	1045.8
60°	658.9	704.9	827.5	942.4	999.8
62.5°	593.8	643.6	777.7	892.6	950.0
65°	524.8	582.3	724.0	838.9	892.6
67.5°	452.0	524.8	662.7	773.8	827.5
70°	379.3	463.5	601.4	704.9	754.7
72.5°	314.1	402.2	532.5	620.6	620.6
75°	249.0	337.1	455.9	463.5	452.0
77.5°	191.5	275.8	356.3	325.6	333.3
80°	141.7	210.7	226.0	237.5	245.2
82.5°	95.8	141.7	145.6	153.2	153.2
85°	61.3	72.8	76.6	72.8	69.0
87.5°	26.8	30.6	23.0	15.3	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)