

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5174.9 lumens
Efficiency: N/A
Efficacy: 74.9 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

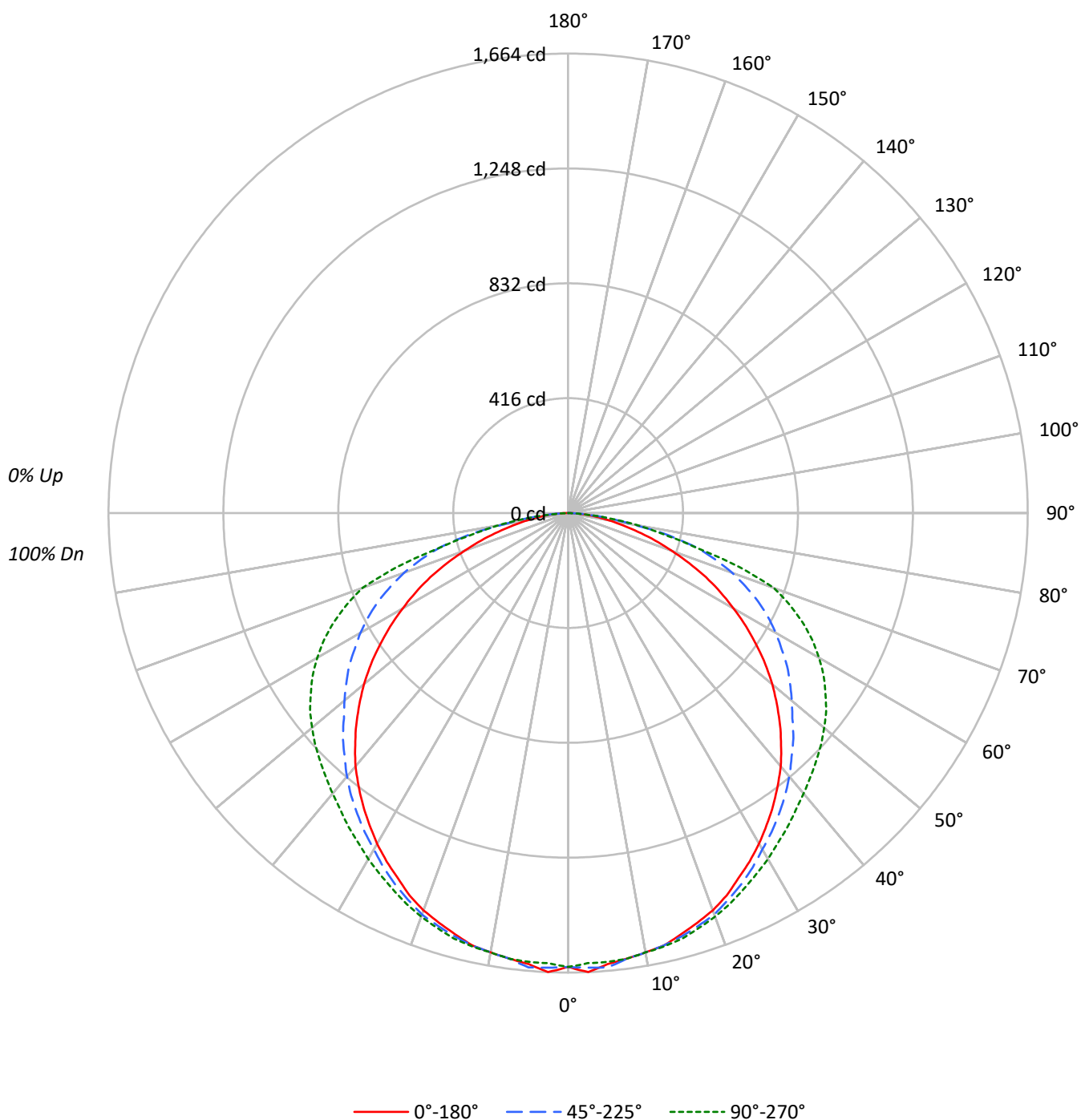
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2212	2212	2212
5°	2210	2221	2194
10°	2198	2187	2188
15°	2185	2180	2193
20°	2173	2173	2187
25°	2141	2148	2180
30°	2117	2120	2185
35°	2089	2107	2200
40°	2060	2095	2236
45°	2014	2084	2301
50°	1960	2081	2390
55°	1884	2112	2490
60°	1783	2140	2598
65°	1664	2171	2693
70°	1465	2167	2738
75°	1242	2075	2077
80°	1009	1412	1553
85°	772	773	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.0
10°-20°	448.2	8.7
20°-30°	683.0	13.2
30°-40°	835.7	16.1
40°-50°	899.2	17.4
50°-60°	871.0	16.8
60°-70°	737.8	14.3
70°-80°	446.0	8.6
80°-90°	98.0	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°	1287.2	24.9
0°-40°	2122.9	41.0
0°-60°	3893.1	75.2
0°-90°	5174.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1640	1640	1652	1644	1632	156
15°	1579	1583	1587	1591	1596	446
25°	1459	1467	1483	1495	1503	673
35°	1294	1302	1330	1366	1386	809
45°	1085	1105	1153	1226	1270	836
55°	832	868	968	1081	1137	743
65°	551	611	760	880	936	542
75°	261	354	478	486	474	281
85°	64	76	80	76	72	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1663.8	1659.8	1647.7	1639.7	1631.6
5°	1639.7	1639.7	1651.7	1643.7	1631.6
7.5°	1627.6	1627.6	1627.6	1647.7	1627.6
10°	1615.6	1619.6	1615.6	1631.6	1615.6
12.5°	1603.5	1603.5	1603.5	1607.5	1607.5
15°	1579.4	1583.4	1587.4	1591.4	1595.5
17.5°	1555.3	1559.3	1567.3	1571.4	1575.4
20°	1531.2	1535.2	1547.2	1547.2	1555.3
22.5°	1499.0	1499.0	1515.1	1519.1	1531.2
25°	1458.8	1466.9	1482.9	1495.0	1503.0
27.5°	1422.7	1430.7	1446.8	1462.8	1474.9
30°	1382.5	1390.5	1406.6	1430.7	1446.8
32.5°	1338.3	1346.3	1370.4	1398.5	1414.6
35°	1294.1	1302.1	1330.2	1366.4	1386.5
37.5°	1245.8	1257.9	1290.0	1330.2	1354.3
40°	1197.6	1209.7	1245.8	1290.0	1326.2
42.5°	1141.3	1157.4	1197.6	1257.9	1298.1
45°	1085.1	1105.2	1153.4	1225.7	1269.9
47.5°	1024.8	1044.9	1101.2	1193.6	1241.8
50°	964.5	988.6	1056.9	1157.4	1209.7
52.5°	900.2	924.3	1012.7	1121.2	1177.5
55°	831.9	868.1	968.5	1081.1	1137.3
57.5°	763.6	803.8	916.3	1036.9	1097.1
60°	691.2	739.5	868.1	988.6	1048.9
62.5°	622.9	675.2	815.8	936.4	996.7
65°	550.6	610.9	759.6	880.1	936.4
67.5°	474.2	550.6	695.3	811.8	868.1
70°	397.9	486.3	631.0	739.5	791.7
72.5°	329.5	422.0	558.6	651.0	651.0
75°	261.2	353.7	478.2	486.3	474.2
77.5°	200.9	289.4	373.7	341.6	349.6
80°	148.7	221.0	237.1	249.2	257.2
82.5°	100.5	148.7	152.7	160.8	160.8
85°	64.3	76.4	80.4	76.4	72.3
87.5°	28.1	32.2	24.1	16.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)