

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-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-LD5-75-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5709.7 lumens
Efficiency: N/A
Efficacy: 82.7 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

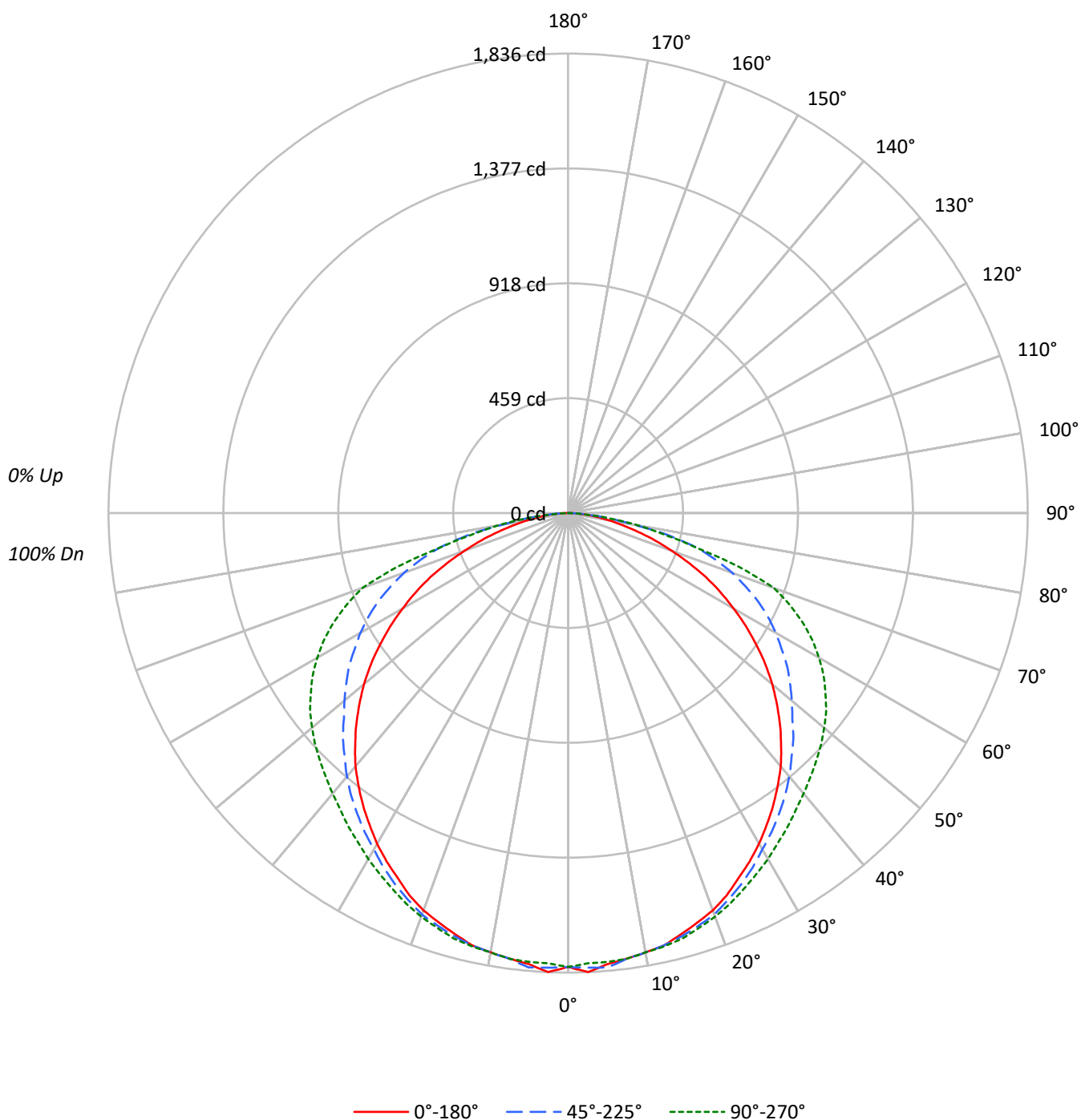
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2440	2440	2440
5°	2438	2450	2421
10°	2425	2413	2414
15°	2411	2406	2420
20°	2397	2398	2413
25°	2362	2370	2406
30°	2336	2339	2410
35°	2305	2324	2428
40°	2273	2312	2467
45°	2222	2300	2539
50°	2163	2296	2637
55°	2079	2330	2748
60°	1967	2361	2866
65°	1836	2396	2971
70°	1616	2391	3021
75°	1370	2290	2292
80°	1114	1558	1713
85°	851	853	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.0
10°-20°	494.5	8.7
20°-30°	753.6	13.2
30°-40°	922.1	16.1
40°-50°	992.1	17.4
50°-60°	961.0	16.8
60°-70°	814.1	14.3
70°-80°	492.1	8.6
80°-90°	108.1	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°	1420.3	24.9
0°-40°	2342.3	41.0
0°-60°	4295.4	75.2
0°-90°	5709.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5709.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1809	1809	1822	1814	1800	172
15°	1743	1747	1752	1756	1760	492
25°	1610	1618	1636	1650	1658	743
35°	1428	1437	1468	1508	1530	893
45°	1197	1219	1273	1352	1401	923
55°	918	958	1069	1193	1255	820
65°	608	674	838	971	1033	598
75°	288	390	528	536	523	310
85°	71	84	89	84	80	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1835.7	1831.3	1818.0	1809.1	1800.3
5°	1809.1	1809.1	1822.4	1813.6	1800.3
7.5°	1795.8	1795.8	1795.8	1818.0	1795.8
10°	1782.5	1786.9	1782.5	1800.3	1782.5
12.5°	1769.2	1769.2	1769.2	1773.6	1773.6
15°	1742.6	1747.0	1751.5	1755.9	1760.3
17.5°	1716.0	1720.4	1729.3	1733.7	1738.2
20°	1689.4	1693.8	1707.1	1707.1	1716.0
22.5°	1653.9	1653.9	1671.7	1676.1	1689.4
25°	1609.6	1618.5	1636.2	1649.5	1658.4
27.5°	1569.7	1578.5	1596.3	1614.0	1627.3
30°	1525.3	1534.2	1551.9	1578.5	1596.3
32.5°	1476.6	1485.4	1512.0	1543.1	1560.8
35°	1427.8	1436.7	1467.7	1507.6	1529.8
37.5°	1374.6	1387.9	1423.4	1467.7	1494.3
40°	1321.4	1334.7	1374.6	1423.4	1463.3
42.5°	1259.3	1277.0	1321.4	1387.9	1432.2
45°	1197.2	1219.4	1272.6	1352.4	1401.2
47.5°	1130.7	1152.9	1214.9	1316.9	1370.1
50°	1064.2	1090.8	1166.2	1277.0	1334.7
52.5°	993.2	1019.8	1117.4	1237.1	1299.2
55°	917.9	957.8	1068.6	1192.8	1254.9
57.5°	842.5	886.8	1011.0	1144.0	1210.5
60°	762.7	815.9	957.8	1090.8	1157.3
62.5°	687.3	744.9	900.1	1033.1	1099.7
65°	607.5	674.0	838.0	971.1	1033.1
67.5°	523.2	607.5	767.1	895.7	957.8
70°	439.0	536.5	696.2	815.9	873.5
72.5°	363.6	465.6	616.3	718.3	718.3
75°	288.2	390.2	527.7	536.5	523.2
77.5°	221.7	319.3	412.4	376.9	385.8
80°	164.1	243.9	261.6	274.9	283.8
82.5°	110.9	164.1	168.5	177.4	177.4
85°	70.9	84.2	88.7	84.2	79.8
87.5°	31.0	35.5	26.6	17.7	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)