

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-L830-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-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4627.7 lumens
Efficiency: N/A
Efficacy: 67.0 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

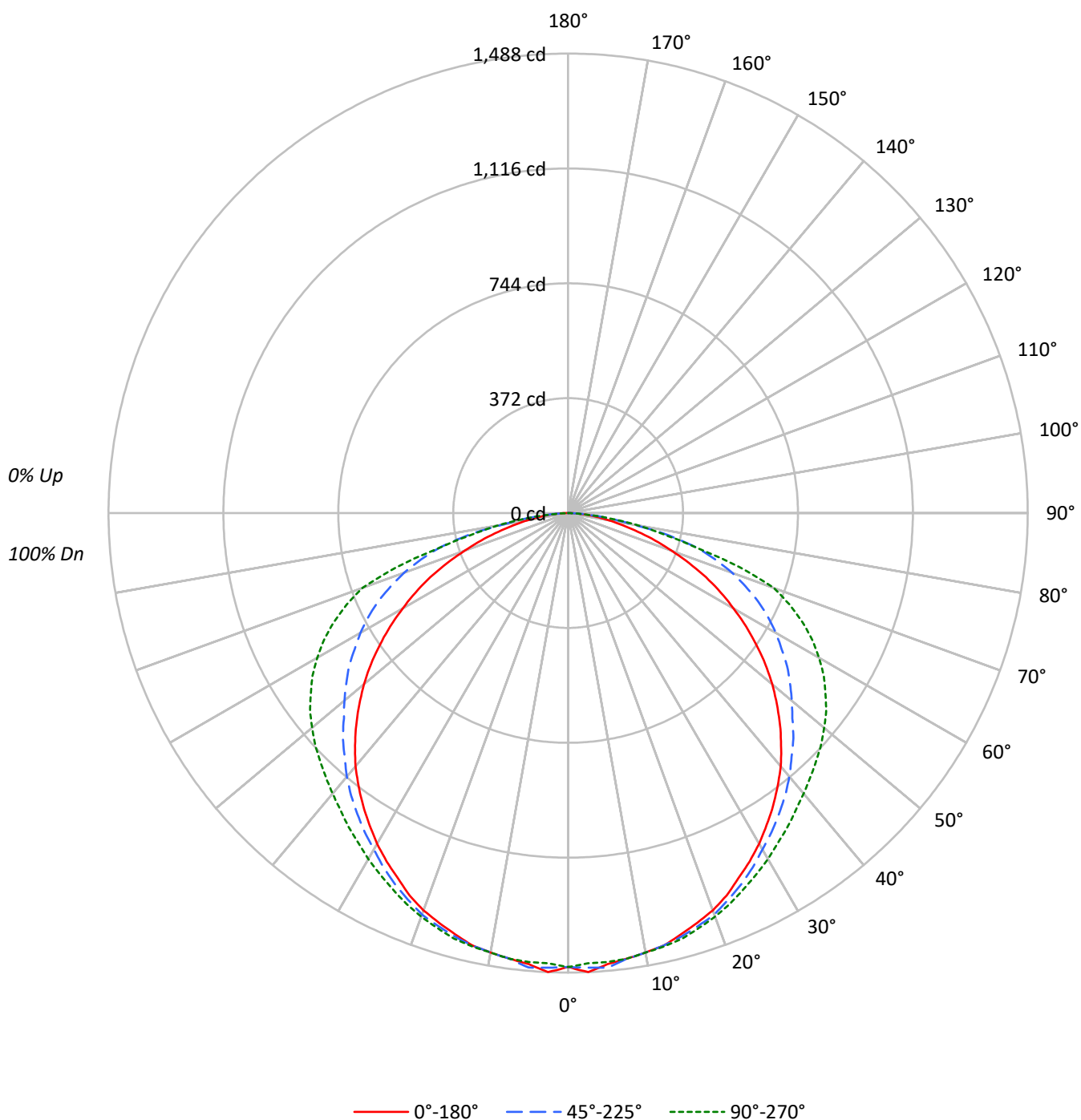
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1978	1978	1978
5°	1976	1986	1962
10°	1965	1956	1957
15°	1954	1950	1961
20°	1943	1944	1956
25°	1914	1921	1950
30°	1893	1896	1954
35°	1868	1884	1968
40°	1842	1873	1999
45°	1801	1864	2058
50°	1753	1861	2137
55°	1685	1889	2227
60°	1595	1913	2323
65°	1488	1942	2408
70°	1310	1937	2449
75°	1111	1856	1858
80°	903	1263	1388
85°	690	691	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.0
10°-20°	400.8	8.7
20°-30°	610.8	13.2
30°-40°	747.3	16.1
40°-50°	804.1	17.4
50°-60°	778.9	16.8
60°-70°	659.8	14.3
70°-80°	398.8	8.6
80°-90°	87.6	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°	1151.1	24.9
0°-40°	1898.5	41.0
0°-60°	3481.5	75.2
0°-90°	4627.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4627.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1466	1466	1477	1470	1459	139
15°	1412	1416	1420	1423	1427	399
25°	1304	1312	1326	1337	1344	602
35°	1157	1164	1190	1222	1240	724
45°	970	988	1031	1096	1136	748
55°	744	776	866	967	1017	665
65°	492	546	679	787	837	485
75°	234	316	428	435	424	251
85°	58	68	72	68	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1487.9	1484.3	1473.4	1466.3	1459.1
5°	1466.3	1466.3	1477.1	1469.9	1459.1
7.5°	1455.5	1455.5	1455.5	1473.4	1455.5
10°	1444.8	1448.4	1444.8	1459.1	1444.8
12.5°	1433.9	1433.9	1433.9	1437.5	1437.5
15°	1412.4	1416.0	1419.6	1423.2	1426.8
17.5°	1390.8	1394.4	1401.6	1405.2	1408.8
20°	1369.2	1372.8	1383.7	1383.7	1390.8
22.5°	1340.5	1340.5	1354.9	1358.5	1369.2
25°	1304.5	1311.8	1326.1	1336.9	1344.2
27.5°	1272.2	1279.5	1293.8	1308.1	1319.0
30°	1236.3	1243.5	1257.9	1279.5	1293.8
32.5°	1196.8	1203.9	1225.5	1250.7	1265.0
35°	1157.2	1164.4	1189.6	1221.9	1239.9
37.5°	1114.1	1124.9	1153.7	1189.6	1211.2
40°	1070.9	1081.8	1114.1	1153.7	1186.0
42.5°	1020.7	1035.0	1070.9	1124.9	1160.8
45°	970.3	988.3	1031.4	1096.1	1135.6
47.5°	916.5	934.4	984.8	1067.4	1110.6
50°	862.5	884.1	945.2	1035.0	1081.8
52.5°	805.0	826.6	905.6	1002.7	1053.0
55°	743.9	776.2	866.1	966.7	1017.1
57.5°	682.9	718.8	819.4	927.2	981.2
60°	618.2	661.3	776.2	884.1	938.0
62.5°	557.1	603.8	729.6	837.3	891.3
65°	492.4	546.2	679.2	787.1	837.3
67.5°	424.1	492.4	621.8	726.0	776.2
70°	355.8	434.8	564.2	661.3	708.0
72.5°	294.7	377.3	499.5	582.3	582.3
75°	233.6	316.3	427.7	434.8	424.1
77.5°	179.7	258.8	334.2	305.5	312.6
80°	133.0	197.7	212.0	222.8	230.0
82.5°	89.9	133.0	136.6	143.7	143.7
85°	57.5	68.3	71.9	68.3	64.7
87.5°	25.2	28.8	21.6	14.3	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)