

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-LD5-70-RDP-UNV-L840-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-LD5-70-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4758.1 lumens
Efficiency: N/A
Efficacy: 74.1 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

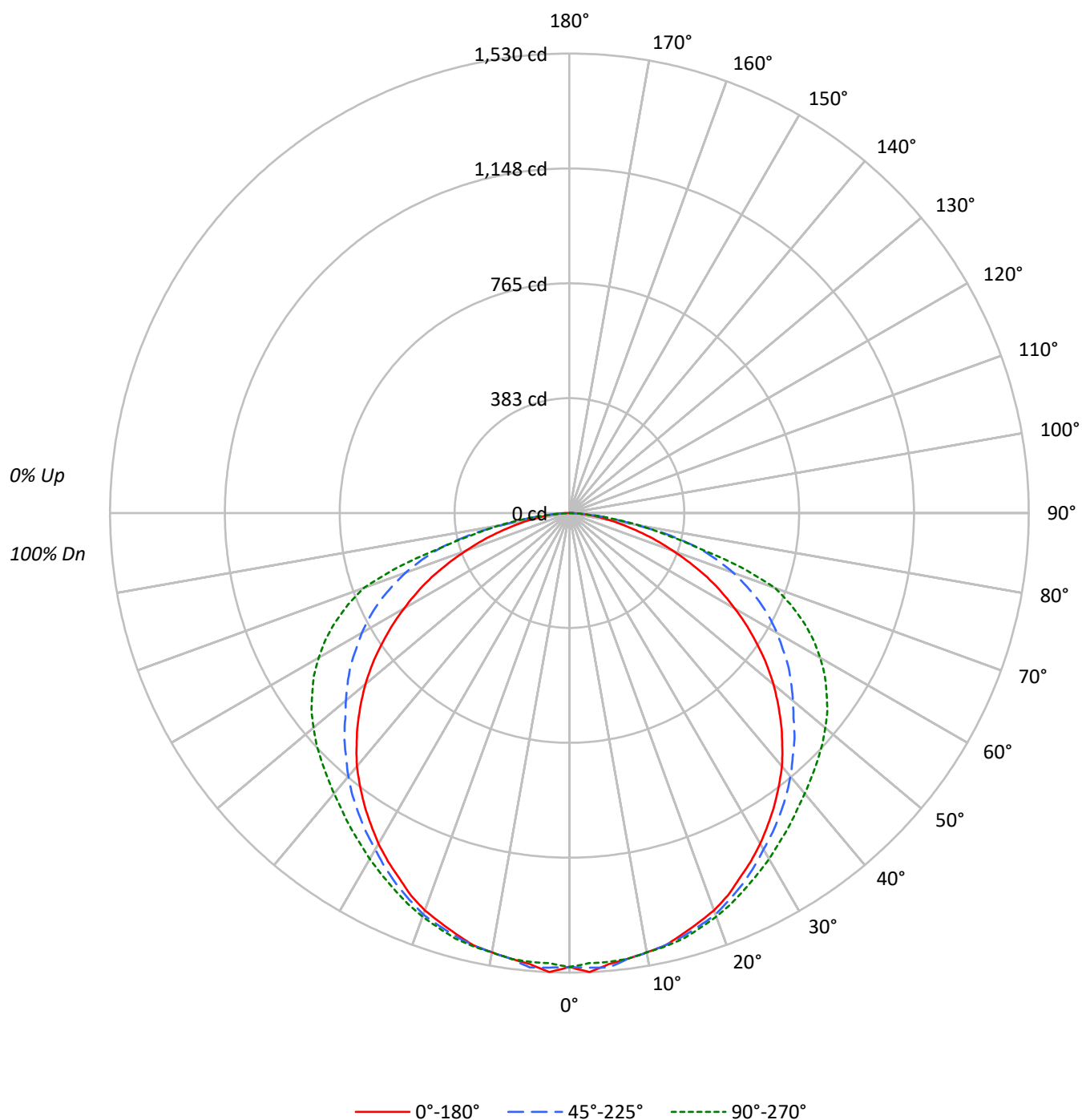
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2033	2033	2033
5°	2032	2042	2017
10°	2021	2011	2012
15°	2009	2005	2016
20°	1998	1998	2011
25°	1968	1975	2005
30°	1947	1950	2009
35°	1921	1937	2023
40°	1894	1926	2056
45°	1852	1916	2116
50°	1803	1913	2197
55°	1732	1942	2290
60°	1639	1967	2388
65°	1530	1996	2476
70°	1347	1992	2518
75°	1142	1908	1910
80°	928	1299	1428
85°	710	710	653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.0
10°-20°	412.1	8.7
20°-30°	628.0	13.2
30°-40°	768.4	16.1
40°-50°	826.8	17.4
50°-60°	800.8	16.8
60°-70°	678.4	14.3
70°-80°	410.1	8.6
80°-90°	90.1	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°	1183.6	24.9
0°-40°	1951.9	41.0
0°-60°	3579.5	75.2
0°-90°	4758.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4758.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1508	1508	1519	1511	1500	143
15°	1452	1456	1460	1463	1467	410
25°	1341	1349	1364	1375	1382	619
35°	1190	1197	1223	1256	1275	744
45°	998	1016	1060	1127	1168	769
55°	765	798	890	994	1046	683
65°	506	562	698	809	861	498
75°	240	325	440	447	436	258
85°	59	70	74	70	66	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1529.8	1526.1	1515.0	1507.6	1500.2
5°	1507.6	1507.6	1518.7	1511.3	1500.2
7.5°	1496.5	1496.5	1496.5	1515.0	1496.5
10°	1485.4	1489.1	1485.4	1500.2	1485.4
12.5°	1474.4	1474.4	1474.4	1478.1	1478.1
15°	1452.2	1455.9	1459.6	1463.3	1467.0
17.5°	1430.0	1433.7	1441.1	1444.8	1448.5
20°	1407.8	1411.5	1422.6	1422.6	1430.0
22.5°	1378.3	1378.3	1393.1	1396.8	1407.8
25°	1341.3	1348.7	1363.5	1374.6	1382.0
27.5°	1308.1	1315.5	1330.2	1345.0	1356.1
30°	1271.1	1278.5	1293.3	1315.5	1330.2
32.5°	1230.5	1237.9	1260.0	1285.9	1300.7
35°	1189.8	1197.2	1223.1	1256.3	1274.8
37.5°	1145.5	1156.6	1186.1	1223.1	1245.3
40°	1101.2	1112.2	1145.5	1186.1	1219.4
42.5°	1049.4	1064.2	1101.2	1156.6	1193.5
45°	997.7	1016.2	1060.5	1127.0	1167.7
47.5°	942.3	960.7	1012.5	1097.5	1141.8
50°	886.8	909.0	971.8	1064.2	1112.2
52.5°	827.7	849.9	931.2	1030.9	1082.7
55°	764.9	798.1	890.5	994.0	1045.7
57.5°	702.1	739.0	842.5	953.3	1008.8
60°	635.6	679.9	798.1	909.0	964.4
62.5°	572.7	620.8	750.1	861.0	916.4
65°	506.2	561.7	698.4	809.2	861.0
67.5°	436.0	506.2	639.3	746.4	798.1
70°	365.8	447.1	580.1	679.9	727.9
72.5°	303.0	388.0	513.6	598.6	598.6
75°	240.2	325.2	439.7	447.1	436.0
77.5°	184.8	266.0	343.6	314.1	321.5
80°	136.7	203.2	218.0	229.1	236.5
82.5°	92.4	136.7	140.4	147.8	147.8
85°	59.1	70.2	73.9	70.2	66.5
87.5°	25.9	29.6	22.2	14.8	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)