

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-LD5-55SE-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-LD5-55SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

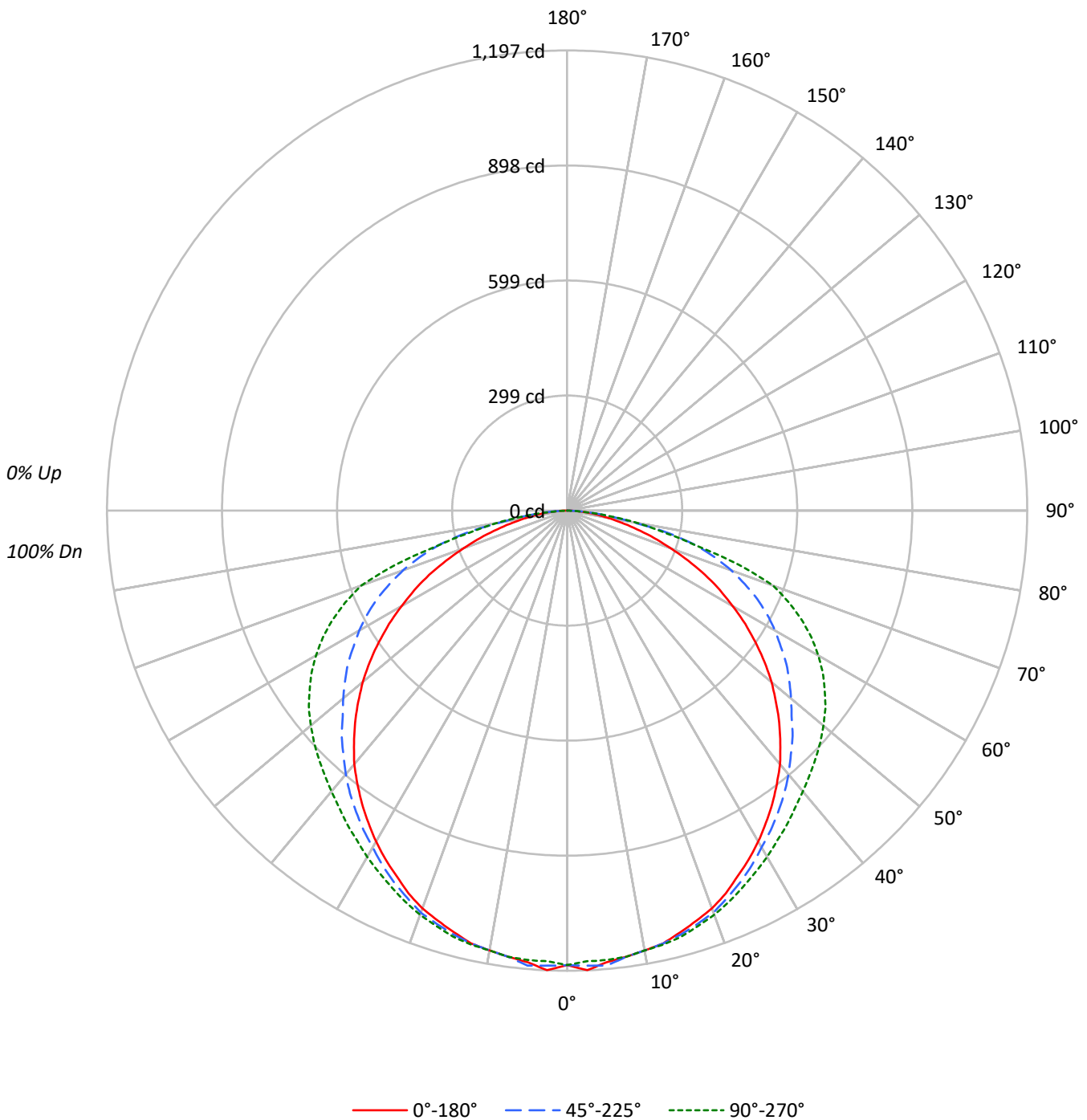
Lumens per Lamp: N/A
Luminaire Lumens: 3721.7 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 54.69
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°	1591	1591	1591
5°	1589	1597	1578
10°	1580	1573	1574
15°	1572	1568	1577
20°	1563	1563	1573
25°	1540	1545	1568
30°	1523	1525	1571
35°	1502	1515	1582
40°	1482	1507	1608
45°	1449	1499	1655
50°	1410	1496	1719
55°	1355	1519	1791
60°	1282	1539	1868
65°	1197	1562	1936
70°	1053	1558	1969
75°	893	1492	1494
80°	725	1016	1117
85°	555	556	511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.0
10°-20°	322.3	8.7
20°-30°	491.2	13.2
30°-40°	601.0	16.1
40°-50°	646.7	17.4
50°-60°	626.4	16.8
60°-70°	530.6	14.3
70°-80°	320.7	8.6
80°-90°	70.5	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°	925.8	24.9
0°-40°	1526.8	41.0
0°-60°	2799.9	75.2
0°-90°	3721.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3721.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1179	1179	1188	1182	1174	112
15°	1136	1139	1142	1145	1147	321
25°	1049	1055	1066	1075	1081	484
35°	931	936	957	983	997	582
45°	780	795	830	882	913	601
55°	598	624	697	778	818	534
65°	396	439	546	633	673	390
75°	188	254	344	350	341	202
85°	46	55	58	55	52	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.1	1182.1	1182.1	1182.1	1182.1
2.5°	1196.6	1193.7	1185.0	1179.2	1173.5
5°	1179.2	1179.2	1187.9	1182.1	1173.5
7.5°	1170.6	1170.6	1170.6	1185.0	1170.6
10°	1161.9	1164.8	1161.9	1173.5	1161.9
12.5°	1153.2	1153.2	1153.2	1156.1	1156.1
15°	1135.9	1138.8	1141.7	1144.6	1147.4
17.5°	1118.5	1121.4	1127.2	1130.1	1133.0
20°	1101.2	1104.1	1112.8	1112.8	1118.5
22.5°	1078.1	1078.1	1089.6	1092.5	1101.2
25°	1049.2	1055.0	1066.5	1075.2	1081.0
27.5°	1023.2	1028.9	1040.5	1052.1	1060.7
30°	994.3	1000.0	1011.6	1028.9	1040.5
32.5°	962.5	968.2	985.6	1005.8	1017.4
35°	930.7	936.5	956.7	982.7	997.1
37.5°	896.0	904.7	927.8	956.7	974.0
40°	861.3	870.0	896.0	927.8	953.8
42.5°	820.8	832.4	861.3	904.7	933.6
45°	780.4	794.8	829.5	881.5	913.3
47.5°	737.0	751.5	791.9	858.4	893.1
50°	693.7	711.0	760.1	832.4	870.0
52.5°	647.4	664.8	728.4	806.4	846.9
55°	598.3	624.3	696.6	777.5	817.9
57.5°	549.2	578.1	659.0	745.7	789.0
60°	497.1	531.8	624.3	711.0	754.4
62.5°	448.0	485.6	586.7	673.4	716.8
65°	396.0	439.3	546.3	633.0	673.4
67.5°	341.1	396.0	500.0	583.8	624.3
70°	286.1	349.7	453.8	531.8	569.4
72.5°	237.0	303.5	401.7	468.2	468.2
75°	187.9	254.3	343.9	349.7	341.1
77.5°	144.5	208.1	268.8	245.7	251.5
80°	106.9	159.0	170.5	179.2	185.0
82.5°	72.3	106.9	109.8	115.6	115.6
85°	46.2	54.9	57.8	54.9	52.0
87.5°	20.2	23.1	17.3	11.6	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)