

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-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-LD5-55SE-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

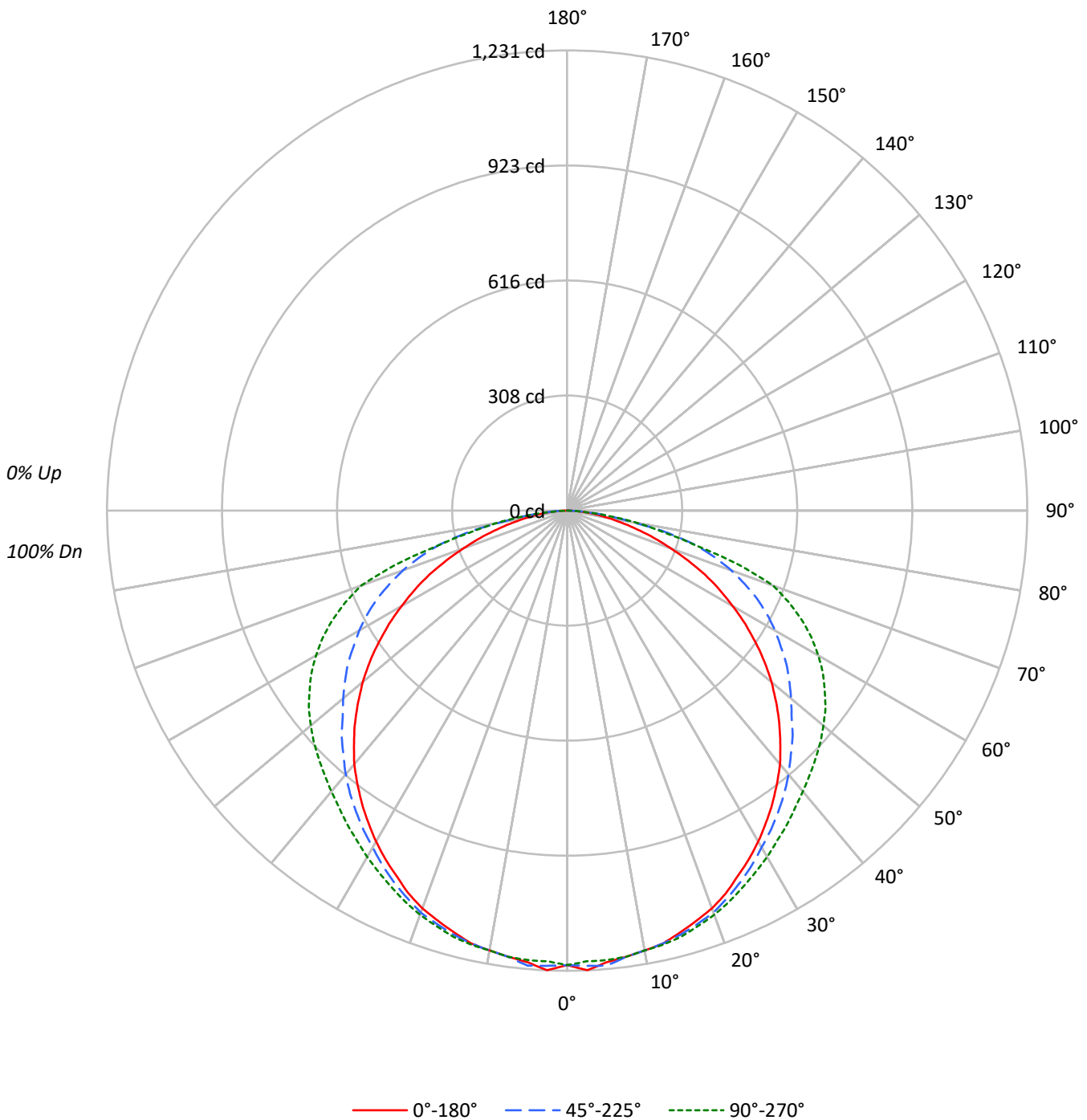
Lumens per Lamp: N/A
Luminaire Lumens: 3827.8 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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°	1636	1636	1636
5°	1634	1643	1623
10°	1625	1618	1618
15°	1617	1613	1622
20°	1607	1608	1618
25°	1584	1589	1613
30°	1566	1568	1616
35°	1545	1558	1628
40°	1524	1550	1654
45°	1490	1542	1702
50°	1450	1539	1768
55°	1394	1562	1842
60°	1319	1583	1922
65°	1231	1606	1991
70°	1083	1602	2025
75°	919	1535	1537
80°	746	1045	1148
85°	572	572	526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.0
10°-20°	331.5	8.7
20°-30°	505.2	13.2
30°-40°	618.1	16.1
40°-50°	665.1	17.4
50°-60°	644.3	16.8
60°-70°	545.8	14.3
70°-80°	329.9	8.6
80°-90°	72.5	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°	952.2	24.9
0°-40°	1570.3	41.0
0°-60°	2879.7	75.2
0°-90°	3827.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1213	1213	1222	1216	1207	115
15°	1168	1171	1174	1177	1180	330
25°	1079	1085	1097	1106	1112	498
35°	957	963	984	1011	1026	599
45°	803	818	853	907	939	619
55°	615	642	716	800	841	550
65°	407	452	562	651	693	401
75°	193	262	354	360	351	208
85°	48	56	60	56	54	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.8	1215.8	1215.8	1215.8	1215.8
2.5°	1230.7	1227.7	1218.8	1212.8	1206.9
5°	1212.8	1212.8	1221.8	1215.8	1206.9
7.5°	1203.9	1203.9	1203.9	1218.8	1203.9
10°	1195.0	1198.0	1195.0	1206.9	1195.0
12.5°	1186.1	1186.1	1186.1	1189.1	1189.1
15°	1168.3	1171.2	1174.2	1177.2	1180.1
17.5°	1150.4	1153.4	1159.3	1162.3	1165.3
20°	1132.6	1135.6	1144.5	1144.5	1150.4
22.5°	1108.8	1108.8	1120.7	1123.7	1132.6
25°	1079.1	1085.0	1096.9	1105.8	1111.8
27.5°	1052.3	1058.3	1070.2	1082.0	1091.0
30°	1022.6	1028.5	1040.4	1058.3	1070.2
32.5°	989.9	995.8	1013.7	1034.5	1046.4
35°	957.2	963.1	983.9	1010.7	1025.6
37.5°	921.5	930.4	954.2	983.9	1001.8
40°	885.9	894.8	921.5	954.2	981.0
42.5°	844.2	856.1	885.9	930.4	960.2
45°	802.6	817.5	853.2	906.7	939.4
47.5°	758.0	772.9	814.5	882.9	918.6
50°	713.4	731.3	781.8	856.1	894.8
52.5°	665.9	683.7	749.1	829.4	871.0
55°	615.3	642.1	716.4	799.6	841.3
57.5°	564.8	594.5	677.8	766.9	811.5
60°	511.3	547.0	642.1	731.3	775.9
62.5°	460.8	499.4	603.4	692.6	737.2
65°	407.3	451.8	561.8	651.0	692.6
67.5°	350.8	407.3	514.3	600.5	642.1
70°	294.3	359.7	466.7	547.0	585.6
72.5°	243.8	312.1	413.2	481.6	481.6
75°	193.2	261.6	353.7	359.7	350.8
77.5°	148.6	214.0	276.5	252.7	258.6
80°	110.0	163.5	175.4	184.3	190.2
82.5°	74.3	110.0	113.0	118.9	118.9
85°	47.6	56.5	59.5	56.5	53.5
87.5°	20.8	23.8	17.8	11.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)