

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3802.2 lumens
Efficiency: N/A
Efficacy: 83.0 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

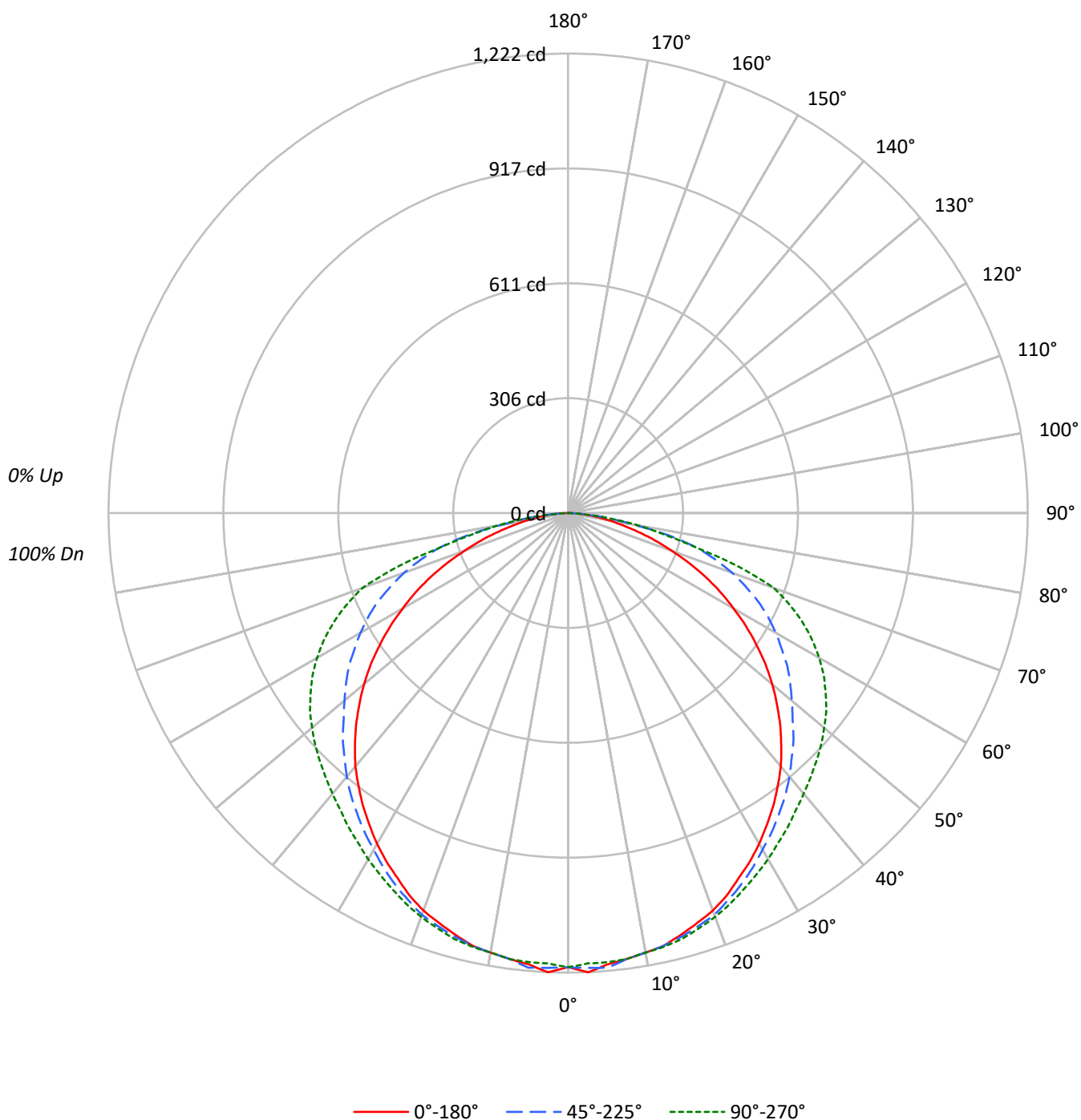
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1625	1625	1625
5°	1624	1632	1612
10°	1615	1607	1608
15°	1606	1602	1611
20°	1596	1597	1607
25°	1573	1579	1602
30°	1556	1558	1605
35°	1535	1548	1617
40°	1514	1539	1643
45°	1480	1531	1691
50°	1441	1529	1756
55°	1384	1552	1830
60°	1310	1572	1909
65°	1222	1595	1978
70°	1076	1592	2012
75°	912	1525	1526
80°	742	1038	1141
85°	567	568	523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.0
10°-20°	329.3	8.7
20°-30°	501.8	13.2
30°-40°	614.0	16.1
40°-50°	660.7	17.4
50°-60°	640.0	16.8
60°-70°	542.1	14.3
70°-80°	327.7	8.6
80°-90°	72.0	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°	945.8	24.9
0°-40°	1559.8	41.0
0°-60°	2860.4	75.2
0°-90°	3802.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1205	1205	1214	1208	1199	115
15°	1160	1163	1166	1169	1172	328
25°	1072	1078	1090	1098	1104	495
35°	951	957	977	1004	1019	595
45°	797	812	848	901	933	614
55°	611	638	712	794	836	546
65°	404	449	558	647	688	398
75°	192	260	351	357	348	206
85°	47	56	59	56	53	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.7	1207.7	1207.7	1207.7	1207.7
2.5°	1222.5	1219.5	1210.7	1204.7	1198.8
5°	1204.7	1204.7	1213.6	1207.7	1198.8
7.5°	1195.9	1195.9	1195.9	1210.7	1195.9
10°	1187.0	1190.0	1187.0	1198.8	1187.0
12.5°	1178.2	1178.2	1178.2	1181.1	1181.1
15°	1160.5	1163.4	1166.4	1169.3	1172.3
17.5°	1142.7	1145.7	1151.6	1154.5	1157.5
20°	1125.0	1128.0	1136.8	1136.8	1142.7
22.5°	1101.4	1101.4	1113.2	1116.2	1125.0
25°	1071.9	1077.8	1089.6	1098.4	1104.3
27.5°	1045.3	1051.2	1063.0	1074.8	1083.7
30°	1015.8	1021.7	1033.5	1051.2	1063.0
32.5°	983.3	989.2	1006.9	1027.6	1039.4
35°	950.8	956.7	977.4	1004.0	1018.7
37.5°	915.4	924.2	947.9	977.4	995.1
40°	879.9	888.8	915.4	947.9	974.4
42.5°	838.6	850.4	879.9	924.2	953.8
45°	797.3	812.0	847.5	900.6	933.1
47.5°	753.0	767.7	809.1	877.0	912.4
50°	708.7	726.4	776.6	850.4	888.8
52.5°	661.4	679.1	744.1	823.8	865.2
55°	611.2	637.8	711.6	794.3	835.6
57.5°	561.0	590.6	673.2	761.8	806.1
60°	507.9	543.3	637.8	726.4	770.7
62.5°	457.7	496.1	599.4	688.0	732.3
65°	404.5	448.8	558.1	646.7	688.0
67.5°	348.4	404.5	510.8	596.5	637.8
70°	292.3	357.3	463.6	543.3	581.7
72.5°	242.1	310.0	410.4	478.4	478.4
75°	191.9	259.8	351.4	357.3	348.4
77.5°	147.6	212.6	274.6	251.0	256.9
80°	109.3	162.4	174.2	183.1	189.0
82.5°	73.8	109.3	112.2	118.1	118.1
85°	47.2	56.1	59.1	56.1	53.2
87.5°	20.7	23.6	17.7	11.8	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)