

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-LD5-50SE-SQP-UNV-L850-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-LD5-50SE-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3876.6 lumens
Efficiency: N/A
Efficacy: 83.3 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

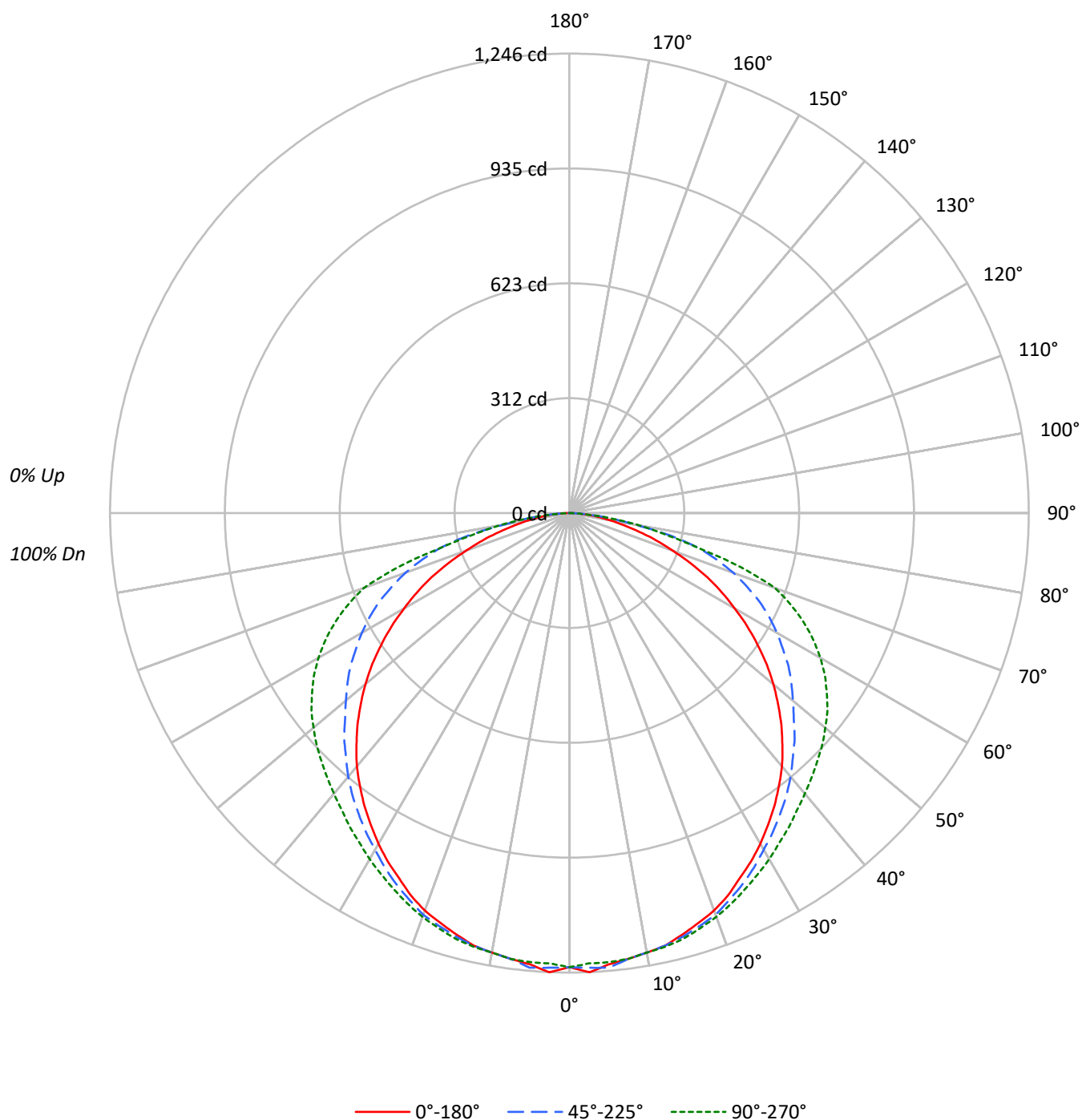
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			
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°	1657	1657	1657
5°	1655	1663	1644
10°	1646	1638	1639
15°	1637	1633	1643
20°	1628	1628	1638
25°	1604	1609	1633
30°	1586	1588	1637
35°	1565	1578	1648
40°	1543	1569	1675
45°	1509	1561	1724
50°	1469	1559	1790
55°	1412	1582	1865
60°	1336	1603	1946
65°	1246	1627	2017
70°	1097	1623	2051
75°	931	1555	1556
80°	756	1058	1163
85°	579	579	532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.0
10°-20°	335.7	8.7
20°-30°	511.6	13.2
30°-40°	626.0	16.1
40°-50°	673.6	17.4
50°-60°	652.5	16.8
60°-70°	552.7	14.3
70°-80°	334.1	8.6
80°-90°	73.4	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°	964.3	24.9
0°-40°	1590.3	41.0
0°-60°	2916.4	75.2
0°-90°	3876.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1228	1228	1237	1231	1222	117
15°	1183	1186	1189	1192	1195	334
25°	1093	1099	1111	1120	1126	504
35°	969	975	996	1024	1039	606
45°	813	828	864	918	951	626
55°	623	650	726	810	852	557
65°	412	458	569	659	702	406
75°	196	265	358	364	355	210
85°	48	57	60	57	54	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1246.4	1243.4	1234.3	1228.3	1222.3
5°	1228.3	1228.3	1237.3	1231.3	1222.3
7.5°	1219.3	1219.3	1219.3	1234.3	1219.3
10°	1210.2	1213.2	1210.2	1222.3	1210.2
12.5°	1201.2	1201.2	1201.2	1204.2	1204.2
15°	1183.1	1186.2	1189.2	1192.2	1195.2
17.5°	1165.1	1168.1	1174.1	1177.1	1180.1
20°	1147.0	1150.0	1159.1	1159.1	1165.1
22.5°	1122.9	1122.9	1135.0	1138.0	1147.0
25°	1092.8	1098.8	1110.9	1119.9	1125.9
27.5°	1065.7	1071.8	1083.8	1095.8	1104.9
30°	1035.6	1041.6	1053.7	1071.8	1083.8
32.5°	1002.5	1008.5	1026.6	1047.7	1059.7
35°	969.4	975.4	996.5	1023.6	1038.6
37.5°	933.3	942.3	966.4	996.5	1014.5
40°	897.1	906.2	933.3	966.4	993.5
42.5°	855.0	867.0	897.1	942.3	972.4
45°	812.8	827.9	864.0	918.2	951.3
47.5°	767.7	782.7	824.9	894.1	930.3
50°	722.5	740.6	791.8	867.0	906.2
52.5°	674.4	692.4	758.7	839.9	882.1
55°	623.2	650.3	725.5	809.8	852.0
57.5°	572.0	602.1	686.4	776.7	821.9
60°	517.8	553.9	650.3	740.6	785.7
62.5°	466.6	505.8	611.1	701.5	746.6
65°	412.4	457.6	569.0	659.3	701.5
67.5°	355.2	412.4	520.8	608.1	650.3
70°	298.0	364.3	472.7	553.9	593.1
72.5°	246.9	316.1	418.5	487.7	487.7
75°	195.7	264.9	358.3	364.3	355.2
77.5°	150.5	216.8	280.0	255.9	261.9
80°	111.4	165.6	177.6	186.7	192.7
82.5°	75.3	111.4	114.4	120.4	120.4
85°	48.2	57.2	60.2	57.2	54.2
87.5°	21.1	24.1	18.1	12.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)