

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-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-LD5-50SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3583.8 lumens
Efficiency: N/A
Efficacy: 77.0 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

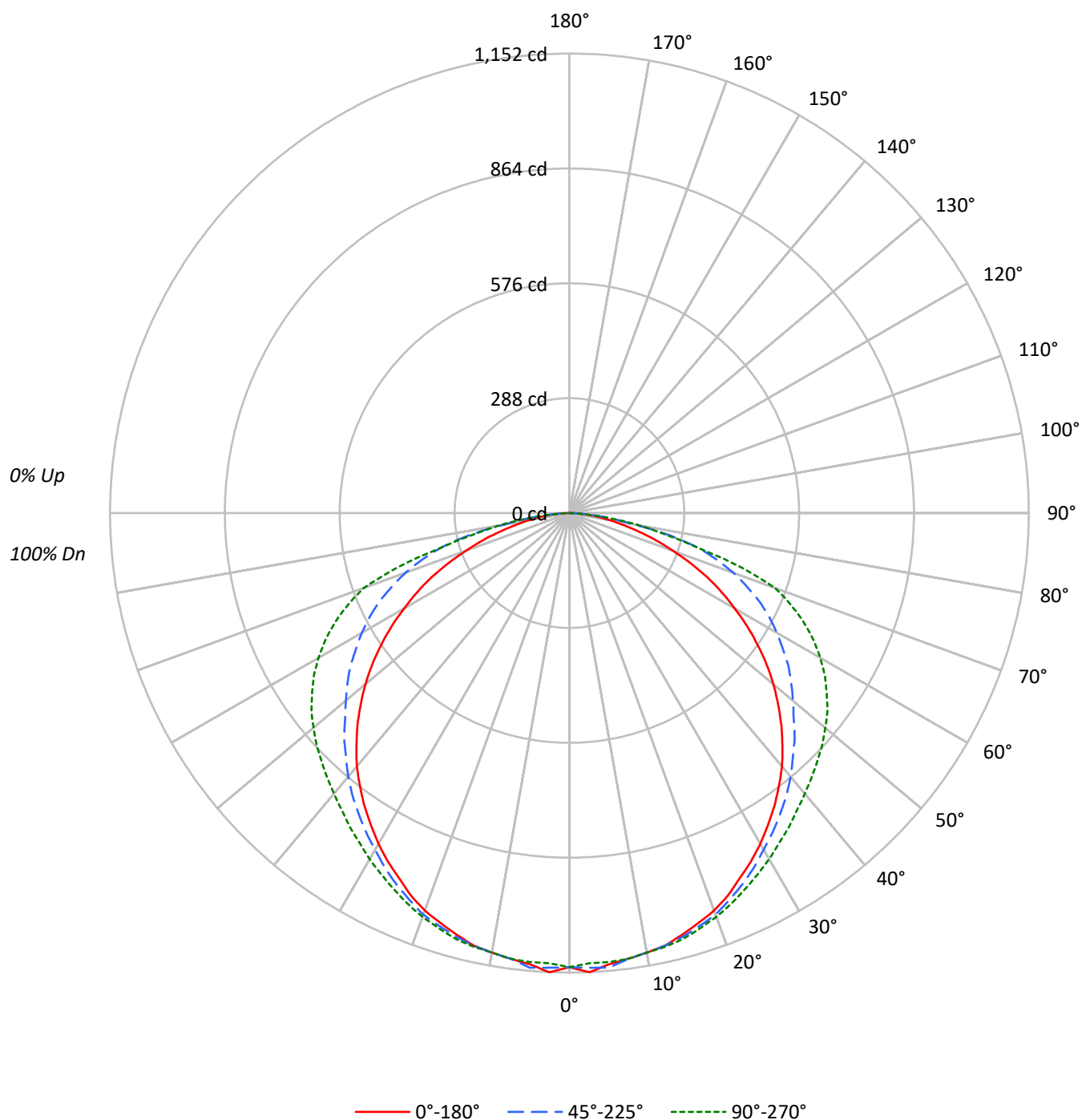
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1532	1532	1532
5°	1530	1538	1519
10°	1522	1514	1515
15°	1513	1510	1519
20°	1505	1505	1515
25°	1483	1488	1510
30°	1466	1468	1513
35°	1447	1459	1524
40°	1427	1451	1548
45°	1395	1443	1594
50°	1358	1441	1655
55°	1305	1463	1724
60°	1235	1482	1799
65°	1152	1504	1865
70°	1014	1501	1896
75°	860	1437	1439
80°	699	978	1075
85°	534	535	492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.0
10°-20°	310.4	8.7
20°-30°	473.0	13.2
30°-40°	578.7	16.1
40°-50°	622.7	17.4
50°-60°	603.2	16.8
60°-70°	511.0	14.3
70°-80°	308.9	8.6
80°-90°	67.9	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°	891.4	24.9
0°-40°	1470.2	41.0
0°-60°	2696.1	75.2
0°-90°	3583.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3583.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1136	1136	1144	1138	1130	108
15°	1094	1097	1099	1102	1105	309
25°	1010	1016	1027	1035	1041	466
35°	896	902	921	946	960	561
45°	751	765	799	849	880	579
55°	576	601	671	749	788	515
65°	381	423	526	610	648	375
75°	181	245	331	337	328	194
85°	44	53	56	53	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.3	1138.3	1138.3	1138.3	1138.3
2.5°	1152.2	1149.4	1141.1	1135.5	1129.9
5°	1135.5	1135.5	1143.9	1138.3	1129.9
7.5°	1127.2	1127.2	1127.2	1141.1	1127.2
10°	1118.8	1121.6	1118.8	1129.9	1118.8
12.5°	1110.5	1110.5	1110.5	1113.3	1113.3
15°	1093.8	1096.6	1099.3	1102.1	1104.9
17.5°	1077.1	1079.9	1085.4	1088.2	1091.0
20°	1060.4	1063.2	1071.5	1071.5	1077.1
22.5°	1038.1	1038.1	1049.2	1052.0	1060.4
25°	1010.3	1015.8	1027.0	1035.3	1040.9
27.5°	985.2	990.8	1001.9	1013.1	1021.4
30°	957.4	963.0	974.1	990.8	1001.9
32.5°	926.8	932.3	949.0	968.5	979.7
35°	896.2	901.7	921.2	946.3	960.2
37.5°	862.8	871.1	893.4	921.2	937.9
40°	829.4	837.7	862.8	893.4	918.4
42.5°	790.4	801.5	829.4	871.1	898.9
45°	751.4	765.4	798.8	848.9	879.5
47.5°	709.7	723.6	762.6	826.6	860.0
50°	668.0	684.6	732.0	801.5	837.7
52.5°	623.4	640.1	701.3	776.5	815.5
55°	576.1	601.2	670.7	748.7	787.6
57.5°	528.8	556.6	634.6	718.0	759.8
60°	478.7	512.1	601.2	684.6	726.4
62.5°	431.4	467.6	565.0	648.5	690.2
65°	381.3	423.0	526.0	609.5	648.5
67.5°	328.4	381.3	481.5	562.2	601.2
70°	275.5	336.8	437.0	512.1	548.3
72.5°	228.2	292.2	386.9	450.9	450.9
75°	180.9	244.9	331.2	336.8	328.4
77.5°	139.2	200.4	258.8	236.6	242.1
80°	103.0	153.1	164.2	172.6	178.1
82.5°	69.6	103.0	105.8	111.3	111.3
85°	44.5	52.9	55.7	52.9	50.1
87.5°	19.5	22.3	16.7	11.1	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)