

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-LD5-45SE-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-LD5-45SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070.9 lumens
Efficiency: N/A
Efficacy: 76.9 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

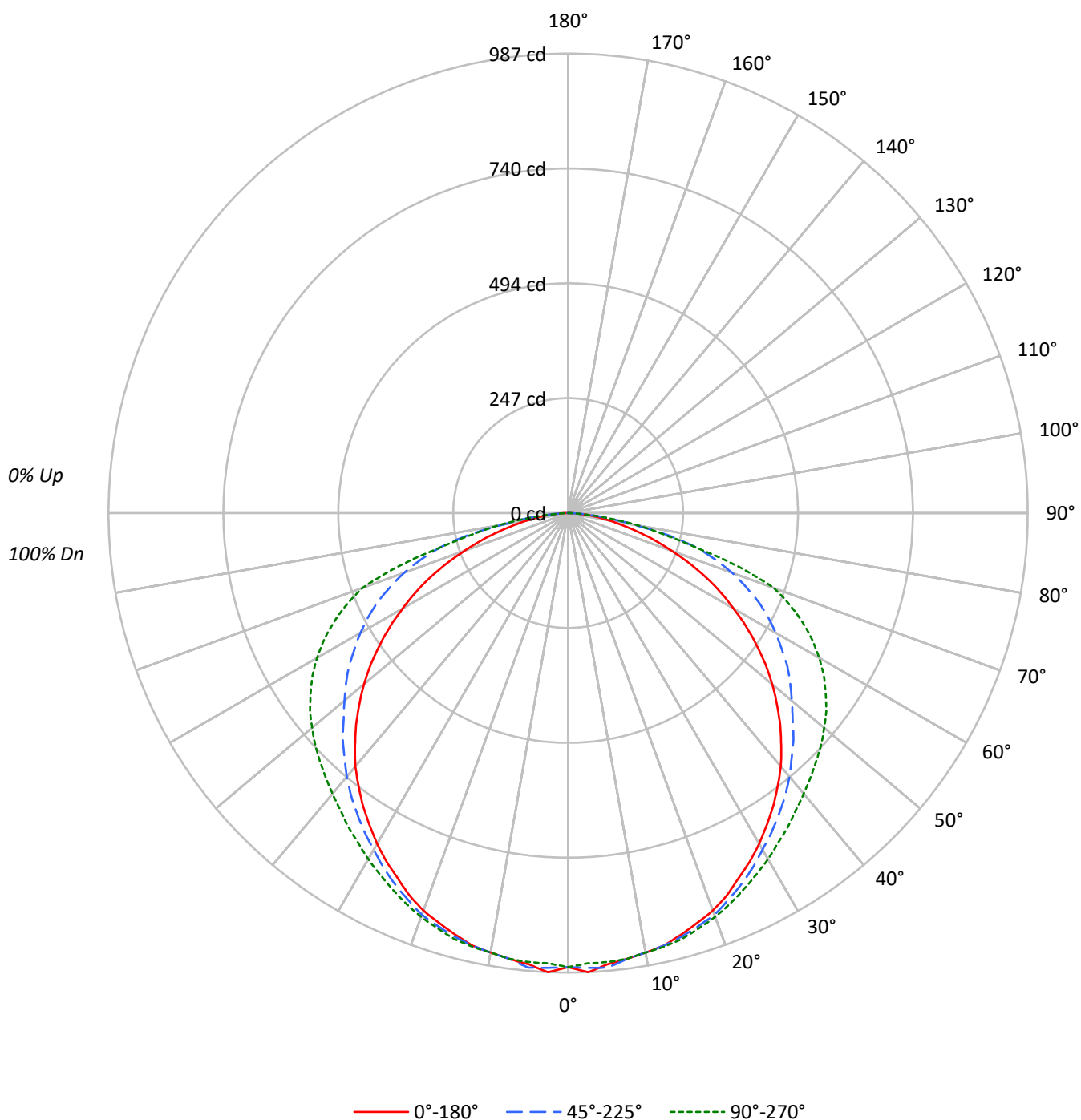
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1312	1312	1312
5°	1311	1318	1302
10°	1304	1298	1298
15°	1297	1294	1301
20°	1289	1290	1298
25°	1270	1275	1294
30°	1256	1258	1296
35°	1240	1250	1306
40°	1223	1243	1327
45°	1195	1237	1366
50°	1163	1235	1418
55°	1118	1253	1478
60°	1058	1270	1541
65°	987	1288	1598
70°	869	1286	1625
75°	737	1232	1233
80°	599	838	921
85°	459	458	421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.0
10°-20°	266.0	8.7
20°-30°	405.3	13.2
30°-40°	495.9	16.1
40°-50°	533.6	17.4
50°-60°	516.9	16.8
60°-70°	437.8	14.3
70°-80°	264.7	8.6
80°-90°	58.1	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°	763.9	24.9
0°-40°	1259.8	41.0
0°-60°	2310.2	75.2
0°-90°	3070.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	973	973	980	975	968	93
15°	937	940	942	944	947	265
25°	866	870	880	887	892	400
35°	768	773	789	811	823	480
45°	644	656	684	727	754	496
55°	494	515	575	642	675	441
65°	327	362	451	522	556	322
75°	155	210	284	289	281	167
85°	38	45	48	45	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.4	975.4	975.4	975.4	975.4
2.5°	987.3	984.9	977.8	973.0	968.2
5°	973.0	973.0	980.2	975.4	968.2
7.5°	965.9	965.9	965.9	977.8	965.9
10°	958.7	961.1	958.7	968.2	958.7
12.5°	951.5	951.5	951.5	953.9	953.9
15°	937.2	939.6	942.0	944.4	946.8
17.5°	922.9	925.3	930.1	932.5	934.9
20°	908.6	911.0	918.2	918.2	922.9
22.5°	889.5	889.5	899.1	901.5	908.6
25°	865.7	870.5	880.0	887.2	891.9
27.5°	844.2	849.0	858.5	868.1	875.2
30°	820.4	825.2	834.7	849.0	858.5
32.5°	794.1	798.9	813.2	829.9	839.5
35°	767.9	772.7	789.4	810.8	822.8
37.5°	739.3	746.5	765.5	789.4	803.7
40°	710.7	717.8	739.3	765.5	787.0
42.5°	677.3	686.8	710.7	746.5	770.3
45°	643.9	655.8	684.4	727.4	753.6
47.5°	608.1	620.1	653.4	708.3	736.9
50°	572.4	586.7	627.2	686.8	717.8
52.5°	534.2	548.5	601.0	665.4	698.8
55°	493.7	515.1	574.7	641.5	674.9
57.5°	453.1	477.0	543.7	615.3	651.1
60°	410.2	438.8	515.1	586.7	622.4
62.5°	369.6	400.7	484.1	555.7	591.4
65°	326.7	362.5	450.7	522.3	555.7
67.5°	281.4	326.7	412.6	481.7	515.1
70°	236.1	288.6	374.4	438.8	469.8
72.5°	195.6	250.4	331.5	386.3	386.3
75°	155.0	209.9	283.8	288.6	281.4
77.5°	119.2	171.7	221.8	202.7	207.5
80°	88.2	131.2	140.7	147.9	152.6
82.5°	59.6	88.2	90.6	95.4	95.4
85°	38.2	45.3	47.7	45.3	42.9
87.5°	16.7	19.1	14.3	9.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)