

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: NEO-RAY

Report Number: P334768

Luminaire Tested: **S123IW-S1320U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S1320U840-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1320 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5331.8 lumens
Efficiency: N/A
Efficacy: 207.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

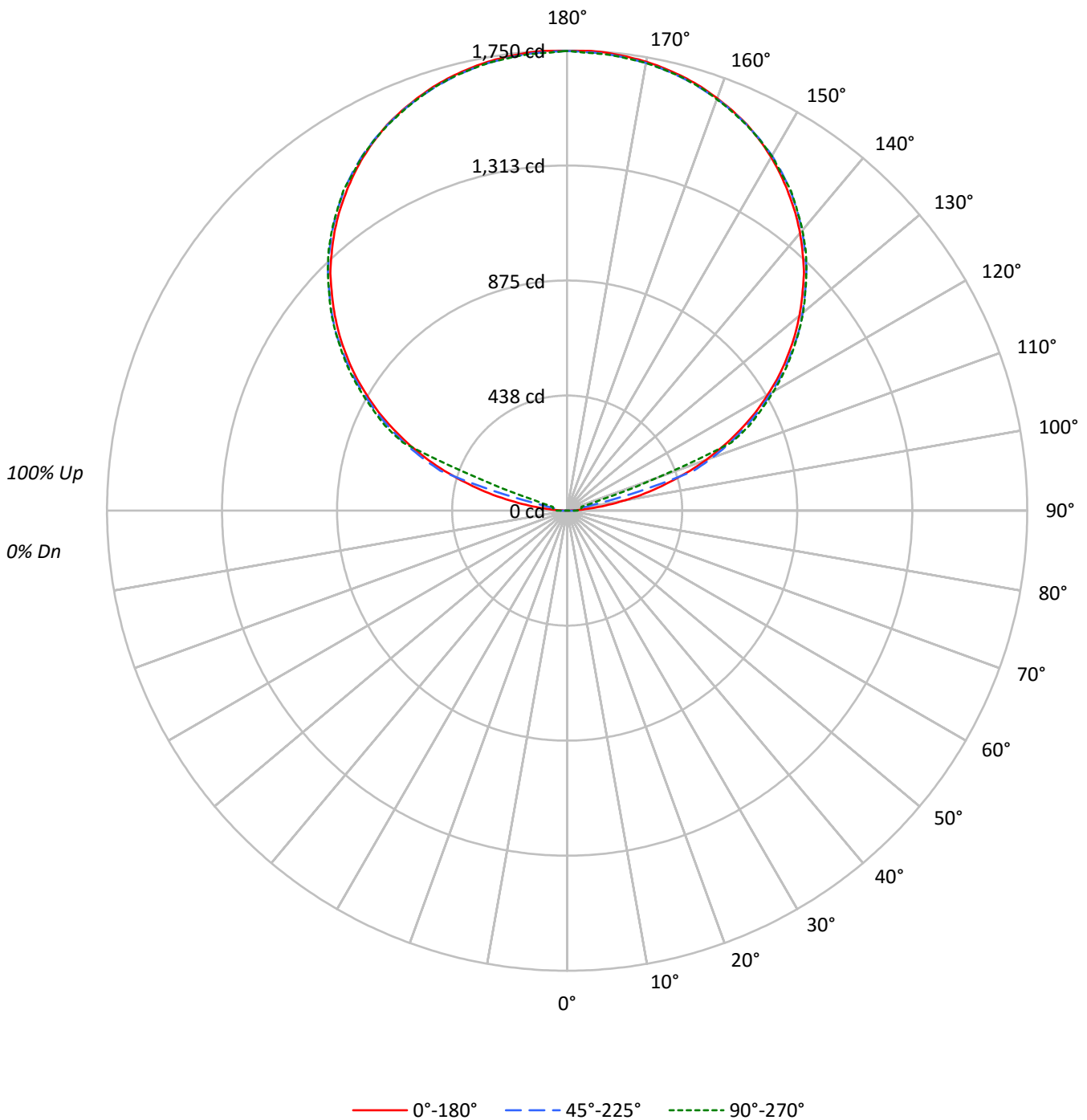
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	3.5	0.1
90°-100°	61.6	1.2
100°-110°	298.0	5.6
110°-120°	730.2	13.7
120°-130°	927.0	17.4
130°-140°	990.3	18.6
140°-150°	926.0	17.4
150°-160°	746.9	14.0
160°-170°	482.0	9.0
170°-180°	166.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.5	0.1
90°-120°	1089.9	20.4
90°-150°	3933.2	73.8
90°-180°	5328.0	99.9
0°-180°	5331.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	14	31	36	39	4
95°	79	26	40	49	49	95
105°	387	401	284	54	57	410
115°	726	734	745	758	764	717
125°	1023	1034	1039	1041	1044	914
135°	1274	1282	1287	1291	1287	981
145°	1470	1479	1482	1484	1484	920
155°	1619	1617	1618	1624	1617	746
165°	1708	1704	1702	1713	1704	482
175°	1748	1741	1743	1752	1741	166
180°	1748	1748	1748	1748	1748	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.3	14.3	31.2	36.4	39.0
92.5°	29.9	22.1	33.8	42.9	44.1
95°	79.2	26.0	40.3	49.3	49.3
97.5°	144.1	107.8	41.6	51.9	53.2
100°	219.4	245.4	42.9	53.2	54.5
102.5°	305.2	322.0	96.1	53.2	55.8
105°	387.0	401.2	284.4	54.5	57.1
107.5°	474.0	485.6	505.1	305.2	135.0
110°	561.0	571.3	585.6	542.8	357.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	644.1	653.2	667.4	679.1	676.5
115°	725.9	733.7	745.3	758.3	763.5
117.5°	806.4	815.5	822.0	832.3	833.6
120°	880.4	892.1	896.0	906.4	906.4
122.5°	955.7	964.8	970.0	976.5	977.8
125°	1023.2	1033.6	1038.8	1041.4	1044.0
127.5°	1090.8	1101.1	1107.6	1111.5	1108.9
130°	1153.1	1163.5	1168.7	1173.9	1171.3
132.5°	1212.8	1223.2	1227.1	1232.3	1228.4
135°	1273.8	1281.6	1286.8	1290.7	1286.8
137.5°	1325.8	1336.2	1338.8	1345.3	1342.7
140°	1377.7	1385.5	1389.4	1394.6	1392.0
142.5°	1425.8	1433.6	1437.5	1441.3	1437.5
145°	1469.9	1479.0	1481.6	1484.2	1484.2
147.5°	1512.8	1519.3	1521.9	1524.5	1518.0
150°	1551.7	1555.6	1558.2	1560.8	1556.9
152.5°	1586.8	1588.1	1589.4	1594.6	1588.1
155°	1619.2	1616.6	1617.9	1624.4	1616.6
157.5°	1645.2	1645.2	1643.9	1651.7	1641.3
160°	1668.6	1667.3	1666.0	1673.8	1664.7
162.5°	1690.7	1686.8	1685.5	1694.6	1686.8
165°	1707.5	1703.6	1702.3	1712.7	1703.6
167.5°	1721.8	1716.6	1716.6	1727.0	1716.6
170°	1733.5	1728.3	1728.3	1738.7	1728.3
172.5°	1741.3	1734.8	1736.1	1746.5	1734.8
175°	1747.8	1741.3	1742.6	1751.7	1741.3
177.5°	1750.4	1743.9	1745.2	1755.6	1742.6
180°	1747.8	1747.8	1747.8	1747.8	1747.8

(END OF REPORT)