

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: P334789

Luminaire Tested: **S123IW-S1535U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334789
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-S1535U940-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1535 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5473.8 lumens
Efficiency: N/A
Efficacy: 178.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

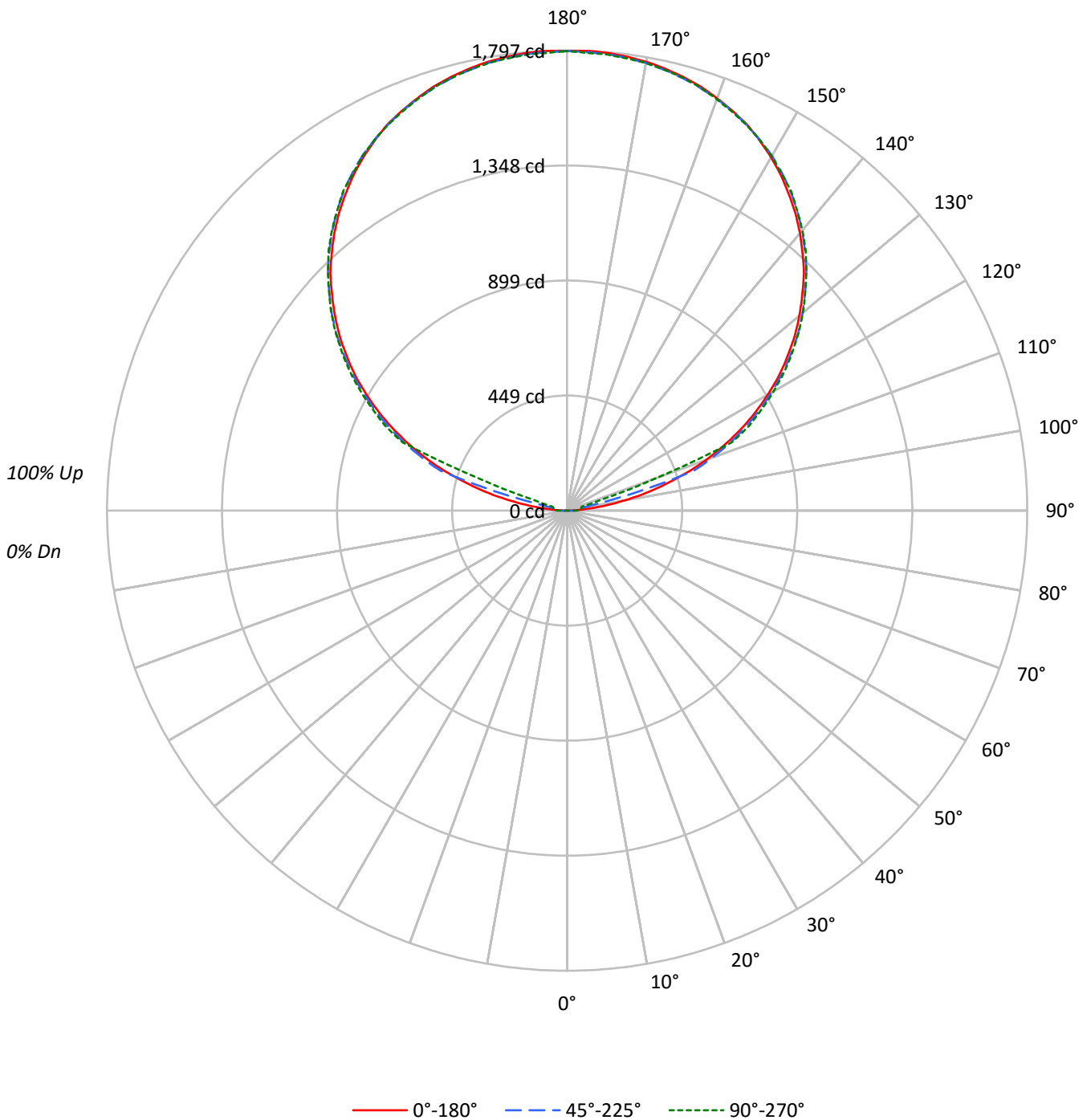
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.6	0.1
90°-100°	63.3	1.2
100°-110°	305.9	5.6
110°-120°	749.7	13.7
120°-130°	951.7	17.4
130°-140°	1016.7	18.6
140°-150°	950.7	17.4
150°-160°	766.8	14.0
160°-170°	494.9	9.0
170°-180°	170.5	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.6	0.1
90°-120°	1118.9	20.4
90°-150°	4038.0	73.8
90°-180°	5470.0	99.9
0°-180°	5473.8	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	15	32	37	40	5
95°	81	27	41	51	51	97
105°	397	412	292	56	59	421
115°	745	753	765	778	784	736
125°	1050	1061	1066	1069	1072	939
135°	1308	1316	1321	1325	1321	1007
145°	1509	1518	1521	1524	1524	945
155°	1662	1660	1661	1668	1660	766
165°	1753	1749	1748	1758	1749	495
175°	1794	1788	1789	1798	1788	171
180°	1794	1794	1794	1794	1794	



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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	14.7	32.0	37.3	40.0
92.5°	30.7	22.7	34.7	44.0	45.3
95°	81.3	26.7	41.3	50.7	50.7
97.5°	148.0	110.6	42.7	53.3	54.7
100°	225.3	252.0	44.0	54.7	56.0
102.5°	313.3	330.6	98.6	54.7	57.3
105°	397.3	411.9	291.9	56.0	58.7
107.5°	486.6	498.6	518.6	313.3	138.6
110°	575.9	586.6	601.2	557.2	366.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	661.2	670.5	685.2	697.2	694.5
115°	745.2	753.2	765.2	778.5	783.9
117.5°	827.9	837.2	843.8	854.5	855.8
120°	903.8	915.8	919.8	930.5	930.5
122.5°	981.2	990.5	995.8	1002.5	1003.8
125°	1050.5	1061.1	1066.5	1069.1	1071.8
127.5°	1119.8	1130.5	1137.1	1141.1	1138.5
130°	1183.8	1194.5	1199.8	1205.1	1202.4
132.5°	1245.1	1255.8	1259.8	1265.1	1261.1
135°	1307.8	1315.8	1321.1	1325.1	1321.1
137.5°	1361.1	1371.8	1374.4	1381.1	1378.4
140°	1414.4	1422.4	1426.4	1431.7	1429.1
142.5°	1463.7	1471.7	1475.7	1479.7	1475.7
145°	1509.1	1518.4	1521.1	1523.7	1523.7
147.5°	1553.1	1559.7	1562.4	1565.1	1558.4
150°	1593.0	1597.0	1599.7	1602.4	1598.4
152.5°	1629.0	1630.4	1631.7	1637.0	1630.4
155°	1662.4	1659.7	1661.0	1667.7	1659.7
157.5°	1689.0	1689.0	1687.7	1695.7	1685.0
160°	1713.0	1711.7	1710.4	1718.4	1709.0
162.5°	1735.7	1731.7	1730.4	1739.7	1731.7
165°	1753.0	1749.0	1747.7	1758.3	1749.0
167.5°	1767.7	1762.3	1762.3	1773.0	1762.3
170°	1779.7	1774.3	1774.3	1785.0	1774.3
172.5°	1787.7	1781.0	1782.3	1793.0	1781.0
175°	1794.3	1787.7	1789.0	1798.3	1787.7
177.5°	1797.0	1790.3	1791.7	1802.3	1789.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3

(END OF REPORT)