

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: P334888

Luminaire Tested: **S124IW-S1340U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IW-S1340U935-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1340 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4009.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

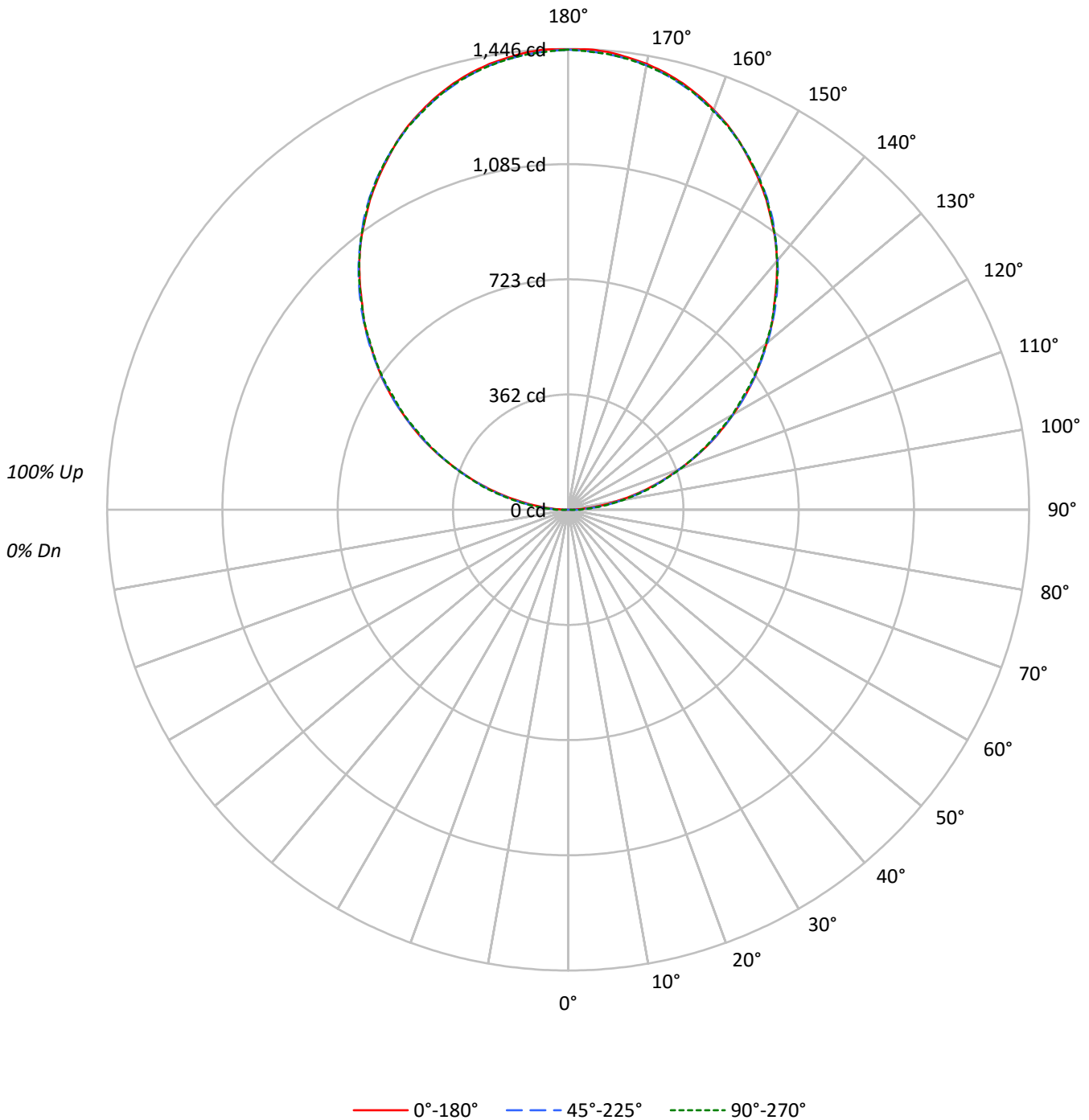
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334888

CATALOG NUMBER: S124IW-S1340U935-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334888

CATALOG NUMBER: S124IW-S1340U935-4F0-1E-UDD-1

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



TEST NUMBER: P334888

CATALOG NUMBER: S124IW-S1340U935-4F0-1E-UDD-1

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°	3.1	0.1
90°-100°	94.1	2.3
100°-110°	281.9	7.0
110°-120°	478.8	11.9
120°-130°	631.5	15.8
130°-140°	709.3	17.7
140°-150°	697.2	17.4
150°-160°	586.4	14.6
160°-170°	390.1	9.7
170°-180°	136.6	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	854.8	21.3
90°-150°	2892.8	72.2
90°-180°	4006.0	99.9
0°-180°	4009.0	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°	3	16	25	31	34	5
95°	67	77	85	88	88	73
105°	260	261	266	269	272	276
115°	487	487	485	484	482	480
125°	709	709	708	706	704	632
135°	914	921	921	919	916	707
145°	1111	1116	1117	1116	1112	695
155°	1273	1273	1272	1276	1272	586
165°	1386	1382	1380	1387	1382	391
175°	1442	1436	1435	1443	1435	137
180°	1444	1444	1444	1444	1444	



TEST NUMBER: P334888

CATALOG NUMBER: S124IW-S1340U935-4F0-1E-UDD-1

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°	3.3	15.6	24.6	31.3	33.5
92.5°	29.0	43.5	49.1	52.5	53.6
95°	67.0	77.0	84.9	88.2	88.2
97.5°	107.2	116.1	125.1	129.5	129.5
100°	156.3	160.8	170.8	173.1	173.1
102.5°	207.7	208.8	217.7	221.1	222.2
105°	260.2	261.3	265.8	269.1	272.5
107.5°	314.9	316.0	317.1	321.6	320.5
110°	370.7	373.0	371.8	369.6	373.0



TEST NUMBER: P334888

CATALOG NUMBER: S124IW-S1340U935-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	428.8	428.8	426.5	426.5	426.5
115°	486.8	486.8	484.6	483.5	482.4
117.5°	541.6	541.6	540.4	537.1	533.7
120°	596.3	600.7	597.4	591.8	594.0
122.5°	653.2	654.3	653.2	649.9	644.3
125°	709.1	709.1	707.9	705.7	703.5
127.5°	759.3	762.6	760.4	758.2	757.1
130°	812.9	816.2	816.2	814.0	809.5
132.5°	867.6	869.8	868.7	866.5	865.4
135°	914.5	921.2	921.2	919.0	915.6
137.5°	967.0	970.3	972.6	969.2	970.3
140°	1019.5	1021.7	1021.7	1020.6	1019.5
142.5°	1067.5	1069.7	1068.6	1068.6	1068.6
145°	1111.0	1115.5	1116.6	1115.5	1112.2
147.5°	1155.7	1161.3	1160.2	1159.0	1157.9
150°	1195.9	1200.4	1200.4	1200.4	1199.2
152.5°	1233.9	1236.1	1237.2	1240.6	1237.2
155°	1272.9	1272.9	1271.8	1276.3	1271.8
157.5°	1306.4	1304.2	1304.2	1307.6	1304.2
160°	1335.5	1334.4	1333.2	1336.6	1331.0
162.5°	1362.3	1358.9	1357.8	1364.5	1358.9
165°	1385.7	1382.4	1380.1	1386.8	1382.4
167.5°	1404.7	1400.2	1400.2	1406.9	1400.2
170°	1420.3	1414.8	1415.9	1422.6	1414.8
172.5°	1431.5	1427.0	1427.0	1434.9	1427.0
175°	1441.6	1436.0	1434.9	1442.7	1434.9
177.5°	1446.0	1440.4	1440.4	1448.3	1439.3
180°	1443.8	1443.8	1443.8	1443.8	1443.8

(END OF REPORT)