

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: P334439

Luminaire Tested: **S125RDW-S1270D940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDW-S1270D940-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1270 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4134.1 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

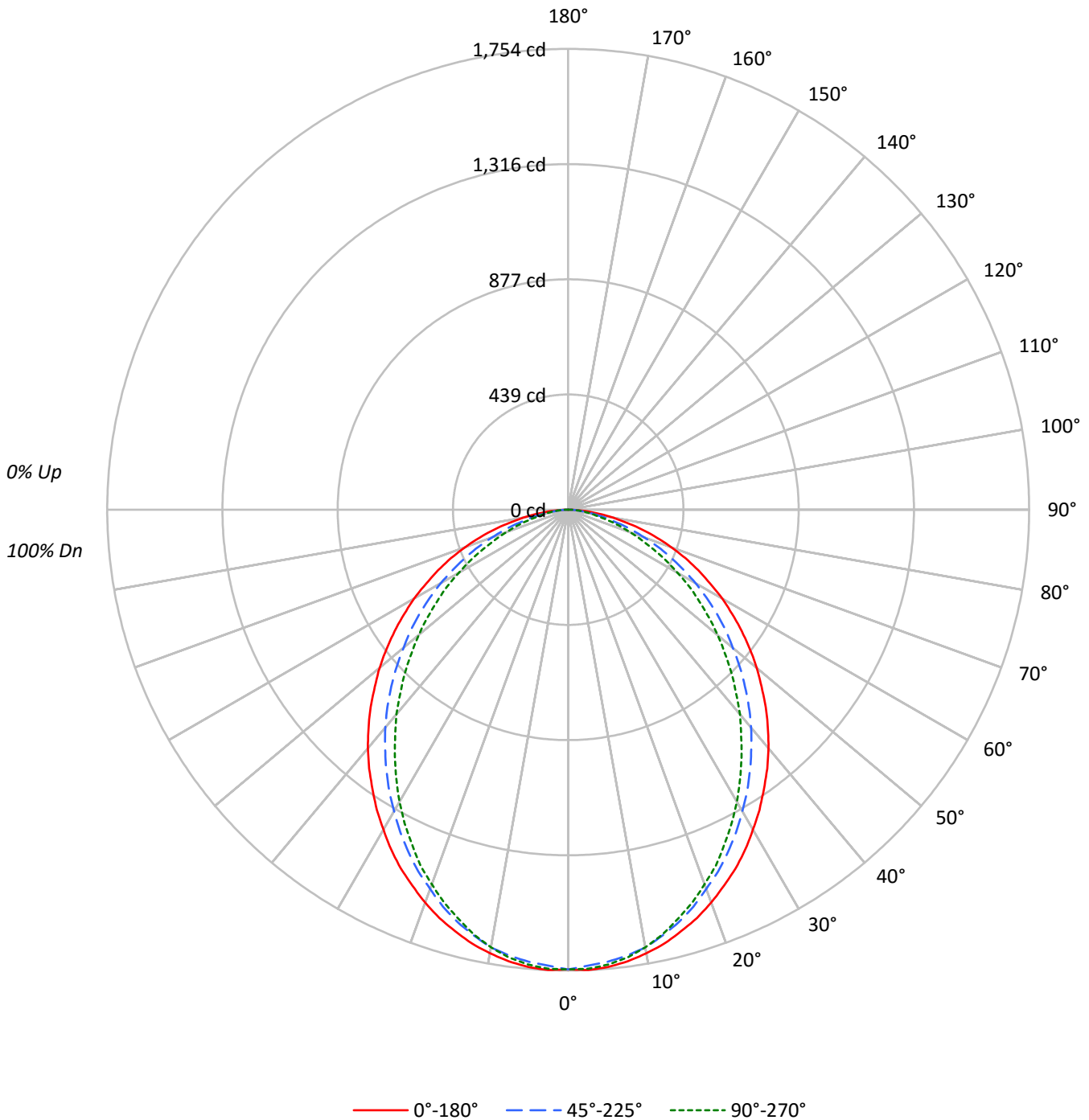
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334439

CATALOG NUMBER: S125RDW-S1270D940-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P334439

CATALOG NUMBER: S125RDW-S1270D940-4F0-1E-UDD-F

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11301	11301	11301
5°	11326	11198	11267
10°	11241	11093	11093
15°	11107	10868	10780
20°	10936	10555	10427
25°	10736	10246	10021
30°	10487	9885	9570
35°	10232	9513	9065
40°	9995	9125	8568
45°	9705	8691	8027
50°	9414	8220	7462
55°	9078	7768	6861
60°	8741	7220	6214
65°	8341	6583	5472
70°	7886	5790	4717
75°	7254	4881	3925
80°	6390	3835	3292
85°	5387	3134	2934



TEST NUMBER: P334439

CATALOG NUMBER: S125RDW-S1270D940-4F0-1E-UDD-F

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	4.0
10°-20°	460.2	11.1
20°-30°	667.3	16.1
30°-40°	760.3	18.4
40°-50°	741.0	17.9
50°-60°	623.6	15.1
60°-70°	437.0	10.6
70°-80°	224.0	5.4
80°-90°	55.9	1.4
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°	1292.2	31.3
0°-40°	2052.5	49.6
0°-60°	3417.2	82.7
0°-90°	4134.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1747	1742	1727	1740	1738	166
15°	1661	1653	1626	1624	1612	468
25°	1507	1487	1438	1421	1406	693
35°	1298	1266	1207	1168	1150	813
45°	1063	1024	952	899	879	819
55°	806	764	690	630	609	721
65°	546	501	431	378	358	541
75°	291	251	196	166	157	307
85°	73	49	42	41	40	84
90°	0	0	0	0	0	



TEST NUMBER: P334439

CATALOG NUMBER: S125RDW-S1270D940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1749.8	1749.8	1749.8	1749.8	1749.8
2.5°	1753.7	1749.8	1736.6	1749.8	1748.5
5°	1747.1	1741.8	1727.3	1740.5	1737.9
7.5°	1733.9	1728.6	1711.5	1722.0	1719.4
10°	1714.1	1710.1	1691.6	1695.6	1691.6
12.5°	1691.6	1686.3	1659.9	1662.6	1655.9
15°	1661.2	1653.3	1625.5	1624.2	1612.3
17.5°	1629.5	1617.6	1584.6	1578.0	1568.7
20°	1591.2	1578.0	1535.7	1529.1	1517.2
22.5°	1548.9	1535.7	1490.7	1476.2	1467.0
25°	1506.6	1486.8	1437.9	1420.7	1406.2
27.5°	1459.0	1435.2	1383.7	1361.2	1346.7
30°	1406.2	1381.1	1325.5	1295.2	1283.3
32.5°	1354.6	1324.2	1267.4	1233.0	1217.2
35°	1297.8	1266.1	1206.6	1168.3	1149.8
37.5°	1243.6	1205.3	1144.5	1099.6	1081.1
40°	1185.5	1145.8	1082.4	1032.2	1016.3
42.5°	1124.7	1083.7	1017.6	970.0	944.9
45°	1062.6	1024.2	951.5	898.7	878.9
47.5°	997.8	958.1	885.5	831.3	808.8
50°	937.0	893.4	818.1	762.6	742.7
52.5°	870.9	826.0	755.9	695.2	675.3
55°	806.2	763.9	689.9	630.4	609.3
57.5°	740.1	695.2	623.8	565.6	547.1
60°	676.7	630.4	559.0	500.9	481.1
62.5°	609.3	565.6	493.0	440.1	420.3
65°	545.8	500.9	430.8	378.0	358.1
67.5°	482.4	437.4	370.0	319.8	304.0
70°	417.6	372.7	306.6	265.6	249.8
72.5°	354.2	310.6	249.8	212.8	203.5
75°	290.7	251.1	195.6	166.5	157.3
77.5°	226.0	194.3	148.0	125.6	117.6
80°	171.8	140.1	103.1	91.2	88.5
82.5°	118.9	91.2	68.7	64.8	63.4
85°	72.7	48.9	42.3	41.0	39.6
87.5°	30.4	21.1	19.8	19.8	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)