

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061484

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

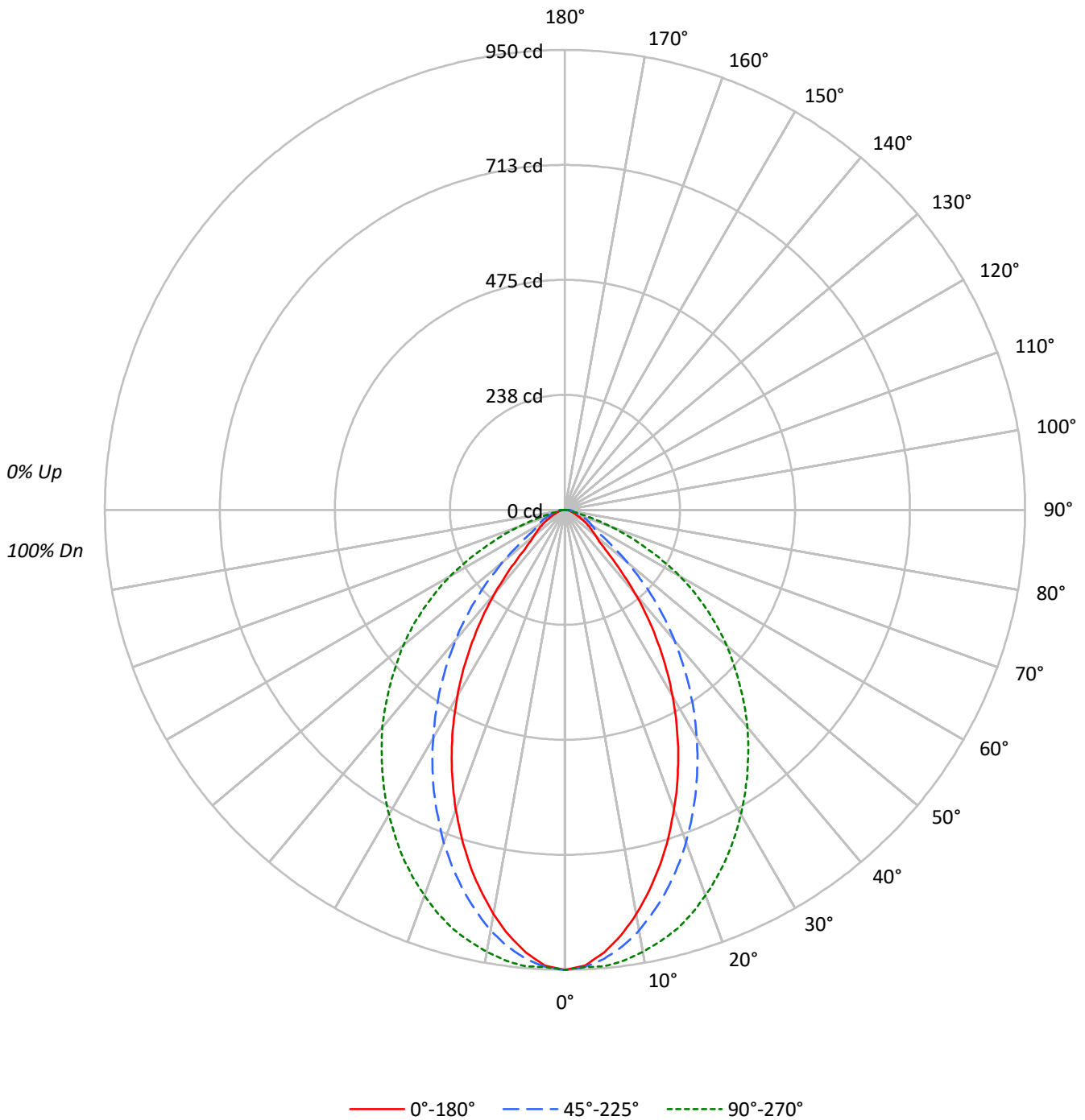
Lumens per Lamp: N/A
Luminaire Lumens: 1376.2 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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: 24 FT

TEST NUMBER: P1061484

CATALOG NUMBER: S125RDR-S1090D930-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1061484

CATALOG NUMBER: S125RDR-S1090D930-X4F0-XX-UDD-SVL-W

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6542	6542	6542
5°	6350	6434	6539
10°	5929	6170	6480
15°	5412	5794	6384
20°	4823	5356	6214
25°	4203	4864	6014
30°	3532	4327	5780
35°	2809	3760	5525
40°	2024	3158	5272
45°	1200	2507	4965
50°	887	1785	4672
55°	751	1103	4278
60°	611	890	3768
65°	477	823	2978
70°	407	711	1993
75°	375	617	806
80°	400	642	559
85°	482	956	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4965 cd/sqm



TEST NUMBER: P1061484

CATALOG NUMBER: S125RDR-S1090D930-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	6.4
10°-20°	230.0	16.7
20°-30°	300.6	21.8
30°-40°	292.8	21.3
40°-50°	219.6	16.0
50°-60°	137.7	10.0
60°-70°	71.7	5.2
70°-80°	25.9	1.9
80°-90°	10.3	0.7
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°	618.2	44.9
0°-40°	911.0	66.2
0°-60°	1268.3	92.2
0°-90°	1376.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	919	931	931	938	946	85
15°	759	782	813	863	896	212
25°	553	584	640	727	792	253
35°	334	370	447	566	657	208
45°	123	160	258	398	510	104
55°	63	66	92	240	356	56
65°	29	31	50	97	183	30
75°	14	19	23	24	30	15
85°	6	10	12	11	8	6
90°	0	0	0	0	0	



TEST NUMBER: P1061484

CATALOG NUMBER: S125RDR-S1090D930-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.1	950.1	950.1	950.1	950.1
2.5°	942.1	951.1	945.1	945.1	945.1
5°	918.8	930.9	930.9	938.0	946.1
7.5°	886.5	900.7	909.7	926.9	939.0
10°	848.1	865.3	882.5	910.8	926.9
12.5°	804.7	824.9	849.2	888.5	912.8
15°	759.3	781.5	812.8	863.3	895.6
17.5°	709.8	736.1	773.4	834.0	873.4
20°	658.3	684.6	731.0	799.7	848.1
22.5°	606.8	635.1	685.6	763.3	820.9
25°	553.3	583.6	640.2	727.0	791.6
27.5°	498.8	530.1	592.7	689.6	759.3
30°	444.3	476.6	544.2	649.2	727.0
32.5°	389.7	424.1	495.8	607.8	692.7
35°	334.2	369.6	447.3	566.4	657.3
37.5°	280.7	316.0	398.8	524.0	622.0
40°	225.2	263.5	351.4	481.6	586.6
42.5°	170.6	210.0	303.9	439.2	548.3
45°	123.2	159.5	257.5	397.8	509.9
47.5°	94.9	115.1	210.0	355.4	472.5
50°	82.8	88.9	166.6	316.0	436.2
52.5°	71.7	75.7	125.2	279.7	396.8
55°	62.6	65.6	91.9	240.3	356.4
57.5°	52.5	56.5	72.7	201.9	315.0
60°	44.4	46.4	64.6	166.6	273.6
62.5°	36.3	38.4	57.6	131.3	227.2
65°	29.3	31.3	50.5	96.9	182.8
67.5°	24.2	25.2	42.4	68.7	140.3
70°	20.2	21.2	35.3	47.5	99.0
72.5°	17.2	20.2	28.3	34.3	62.6
75°	14.1	19.2	23.2	24.2	30.3
77.5°	12.1	18.2	19.2	19.2	17.2
80°	10.1	15.1	16.2	15.1	14.1
82.5°	8.1	12.1	13.1	13.1	11.1
85°	6.1	10.1	12.1	11.1	8.1
87.5°	4.0	9.1	10.1	9.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)