

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: P1175364

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D950-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

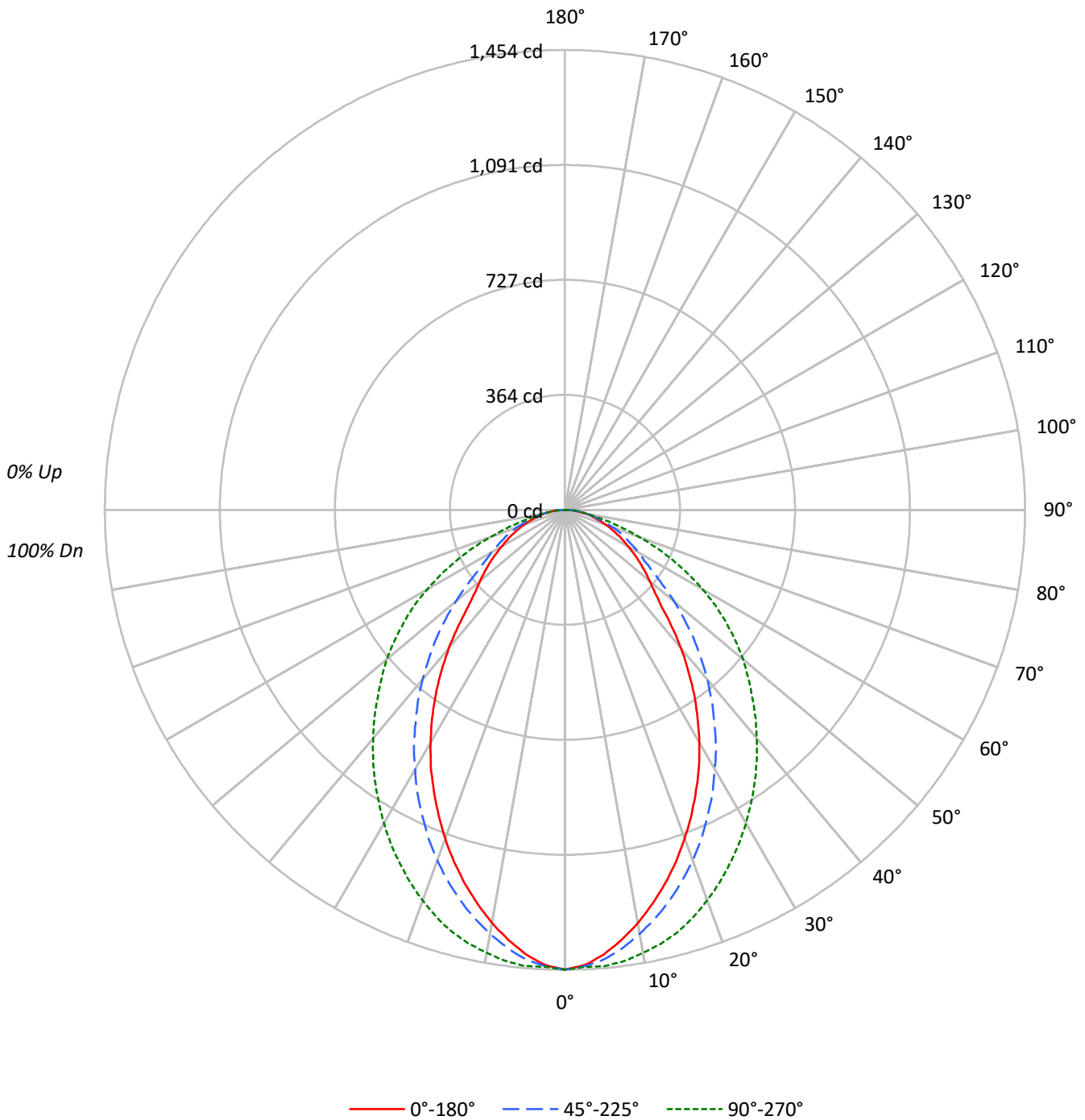
Lumens per Lamp: N/A
Luminaire Lumens: 2738.8 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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: P1175364

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1175364

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-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				
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10009	10009	10009
5°	9749	9860	10005
10°	9275	9517	9940
15°	8718	9113	9843
20°	8102	8645	9630
25°	7444	8100	9375
30°	6750	7525	9095
35°	5975	6918	8796
40°	5124	6289	8474
45°	4205	5600	8147
50°	3740	4812	7865
55°	3451	4030	7467
60°	3178	3671	6917
65°	2955	3459	6113
70°	2758	3229	4993
75°	2594	2987	3743
80°	2446	2740	2692
85°	2244	2733	2244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8147 cd/sqm



TEST NUMBER: P1175364

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	4.9
10°-20°	362.8	13.2
20°-30°	499.1	18.2
30°-40°	529.3	19.3
40°-50°	463.3	16.9
50°-60°	355.5	13.0
60°-70°	236.8	8.6
70°-80°	121.4	4.4
80°-90°	36.0	1.3
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°	996.4	36.4
0°-40°	1525.7	55.7
0°-60°	2344.5	85.6
0°-90°	2738.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1411	1429	1427	1436	1448	132
15°	1223	1251	1278	1339	1381	343
25°	980	1013	1066	1156	1234	450
35°	711	744	823	944	1046	443
45°	432	468	575	718	837	341
55°	288	294	336	499	622	258
65°	181	183	212	279	375	181
75°	98	104	112	118	141	104
85°	28	32	35	33	28	32
90°	0	0	0	0	0	



TEST NUMBER: P1175364

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.7	1453.7	1453.7	1453.7	1453.7
2.5°	1440.2	1455.0	1443.9	1445.1	1446.3
5°	1410.6	1429.1	1426.6	1436.5	1447.6
7.5°	1371.1	1390.8	1397.0	1421.7	1438.9
10°	1326.6	1348.8	1361.2	1398.2	1421.7
12.5°	1276.0	1302.0	1321.7	1369.8	1404.4
15°	1223.0	1251.4	1278.5	1339.0	1380.9
17.5°	1166.2	1194.6	1230.4	1299.5	1350.1
20°	1105.7	1136.6	1179.8	1253.8	1314.3
22.5°	1044.0	1076.1	1125.5	1206.9	1276.0
25°	979.9	1013.2	1066.2	1156.3	1234.1
27.5°	916.9	947.8	1009.5	1105.7	1190.9
30°	849.0	881.1	946.5	1052.7	1144.0
32.5°	781.2	813.3	888.5	999.6	1095.9
35°	710.8	744.1	823.1	944.1	1046.5
37.5°	640.5	675.0	762.7	887.3	995.9
40°	570.1	607.2	699.7	830.5	942.8
42.5°	498.6	538.1	635.6	775.0	891.0
45°	431.9	467.7	575.1	718.2	836.7
47.5°	383.8	404.8	510.9	660.2	784.9
50°	349.2	359.1	449.2	604.7	734.3
52.5°	318.4	324.6	388.7	552.9	678.7
55°	287.5	293.7	335.7	498.6	622.0
57.5°	257.9	261.6	296.2	444.3	565.2
60°	230.8	233.2	266.6	390.0	502.3
62.5°	206.1	207.3	238.2	334.4	439.3
65°	181.4	182.6	212.3	278.9	375.2
67.5°	159.2	159.2	187.6	228.3	313.5
70°	137.0	137.0	160.4	185.1	248.0
72.5°	117.2	119.7	135.7	149.3	193.8
75°	97.5	103.7	112.3	118.5	140.7
77.5°	79.0	86.4	90.1	92.6	93.8
80°	61.7	66.6	69.1	70.3	67.9
82.5°	45.7	49.4	50.6	50.6	46.9
85°	28.4	32.1	34.6	33.3	28.4
87.5°	13.6	18.5	19.7	17.3	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)