

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: P1061576

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

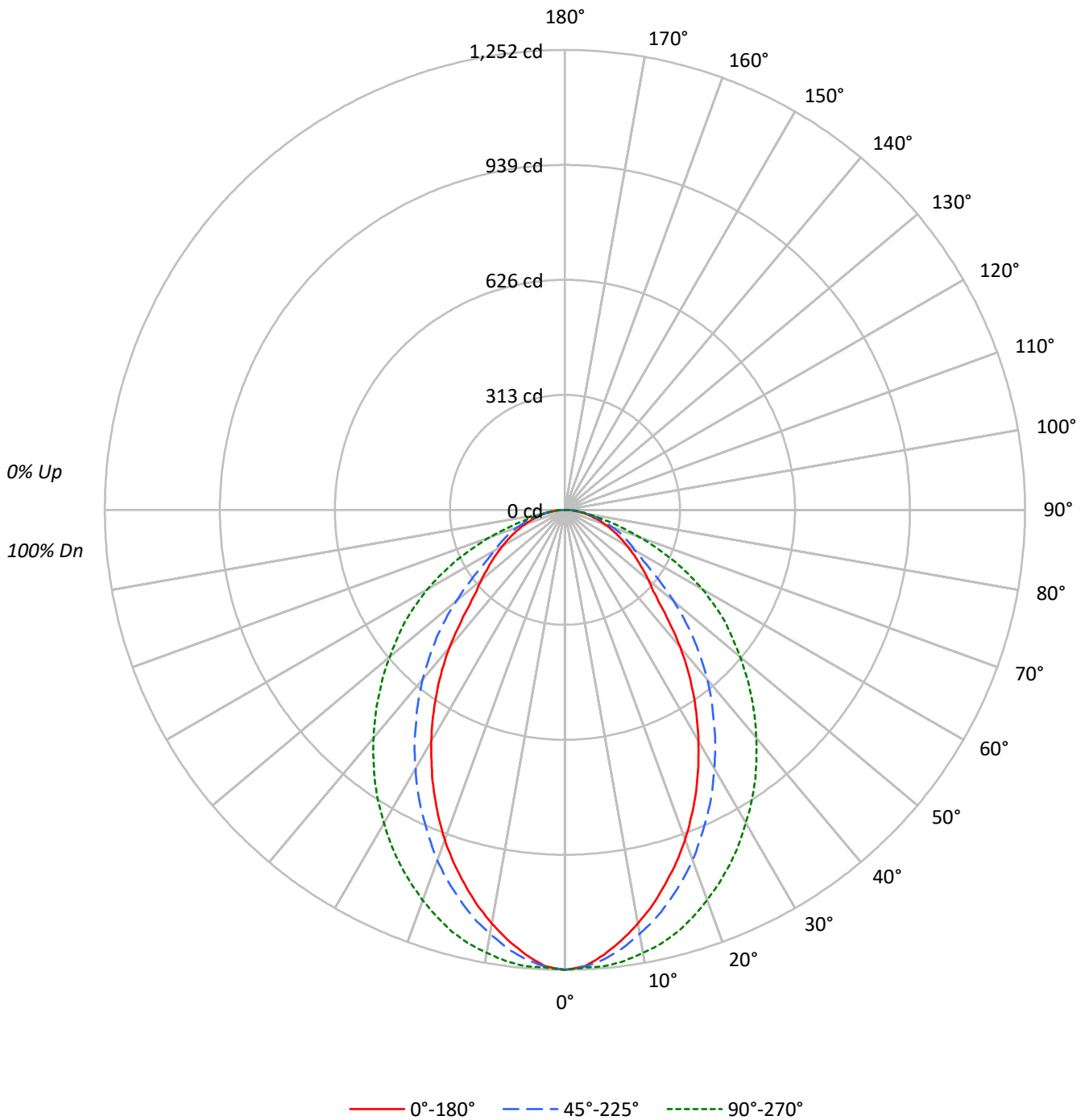
Lumens per Lamp: N/A
Luminaire Lumens: 2347.4 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061576

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061576

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-S

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	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8622	8622	8622
5°	8404	8490	8620
10°	7993	8195	8562
15°	7517	7847	8471
20°	7003	7442	8286
25°	6415	6966	8078
30°	5778	6464	7827
35°	5110	5941	7581
40°	4385	5408	7286
45°	3581	4811	6980
50°	3176	4127	6659
55°	2913	3424	6381
60°	2687	3032	5943
65°	2507	2915	5298
70°	2341	2770	4332
75°	2163	2596	3195
80°	2034	2431	2331
85°	1880	2370	1975

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6980 cd/sqm



TEST NUMBER: P1061576

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	4.9
10°-20°	312.1	13.3
20°-30°	429.0	18.3
30°-40°	454.6	19.4
40°-50°	396.9	16.9
50°-60°	301.5	12.8
60°-70°	202.0	8.6
70°-80°	104.1	4.4
80°-90°	31.2	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°	857.0	36.5
0°-40°	1311.6	55.9
0°-60°	2010.0	85.6
0°-90°	2347.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1216	1228	1228	1237	1247	114
15°	1054	1074	1101	1150	1188	296
25°	844	871	917	993	1063	387
35°	608	643	707	807	902	379
45°	368	404	494	612	717	290
55°	243	250	285	419	532	218
65°	154	158	179	239	325	153
75°	81	86	98	104	120	87
85°	24	30	30	28	25	27
90°	0	0	0	0	0	



TEST NUMBER: P1061576

CATALOG NUMBER: S125RDR-S1270D935-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.2	1252.2	1252.2	1252.2	1252.2
2.5°	1243.4	1252.2	1244.7	1244.7	1247.2
5°	1215.9	1228.4	1228.4	1237.1	1247.2
7.5°	1182.1	1195.9	1203.4	1223.4	1238.4
10°	1143.3	1158.3	1172.1	1202.1	1224.6
12.5°	1102.0	1118.3	1139.6	1178.4	1209.6
15°	1054.5	1074.5	1100.8	1149.6	1188.4
17.5°	1007.0	1027.0	1059.5	1117.1	1160.8
20°	955.7	977.0	1015.7	1078.3	1130.8
22.5°	900.7	924.4	965.7	1037.0	1098.3
25°	844.4	870.6	916.9	993.2	1063.3
27.5°	785.6	816.8	866.9	948.2	1025.7
30°	726.8	758.0	813.1	901.9	984.5
32.5°	668.0	701.8	761.8	855.6	944.4
35°	607.9	643.0	706.8	806.8	901.9
37.5°	549.1	584.2	655.5	759.3	855.6
40°	487.9	524.1	601.7	710.5	810.6
42.5°	425.3	464.1	547.9	660.5	764.3
45°	367.8	404.0	494.1	611.7	716.8
47.5°	325.2	349.0	440.3	561.7	670.5
50°	296.5	309.0	385.3	512.9	621.7
52.5°	267.7	277.7	334.0	462.8	575.4
55°	242.7	250.2	285.2	419.1	531.6
57.5°	217.7	225.2	247.7	375.3	480.3
60°	195.1	201.4	220.2	329.0	431.6
62.5°	173.9	178.9	198.9	285.2	379.0
65°	153.9	157.6	178.9	238.9	325.2
67.5°	133.8	137.6	158.9	195.1	267.7
70°	116.3	117.6	137.6	158.9	215.2
72.5°	98.8	100.1	116.3	128.8	165.1
75°	81.3	86.3	97.6	103.8	120.1
77.5°	66.3	72.6	78.8	81.3	81.3
80°	51.3	58.8	61.3	61.3	58.8
82.5°	37.5	43.8	45.0	42.5	40.0
85°	23.8	30.0	30.0	27.5	25.0
87.5°	11.3	16.3	16.3	15.0	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)