

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: P1061513

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061513
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-S1090D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

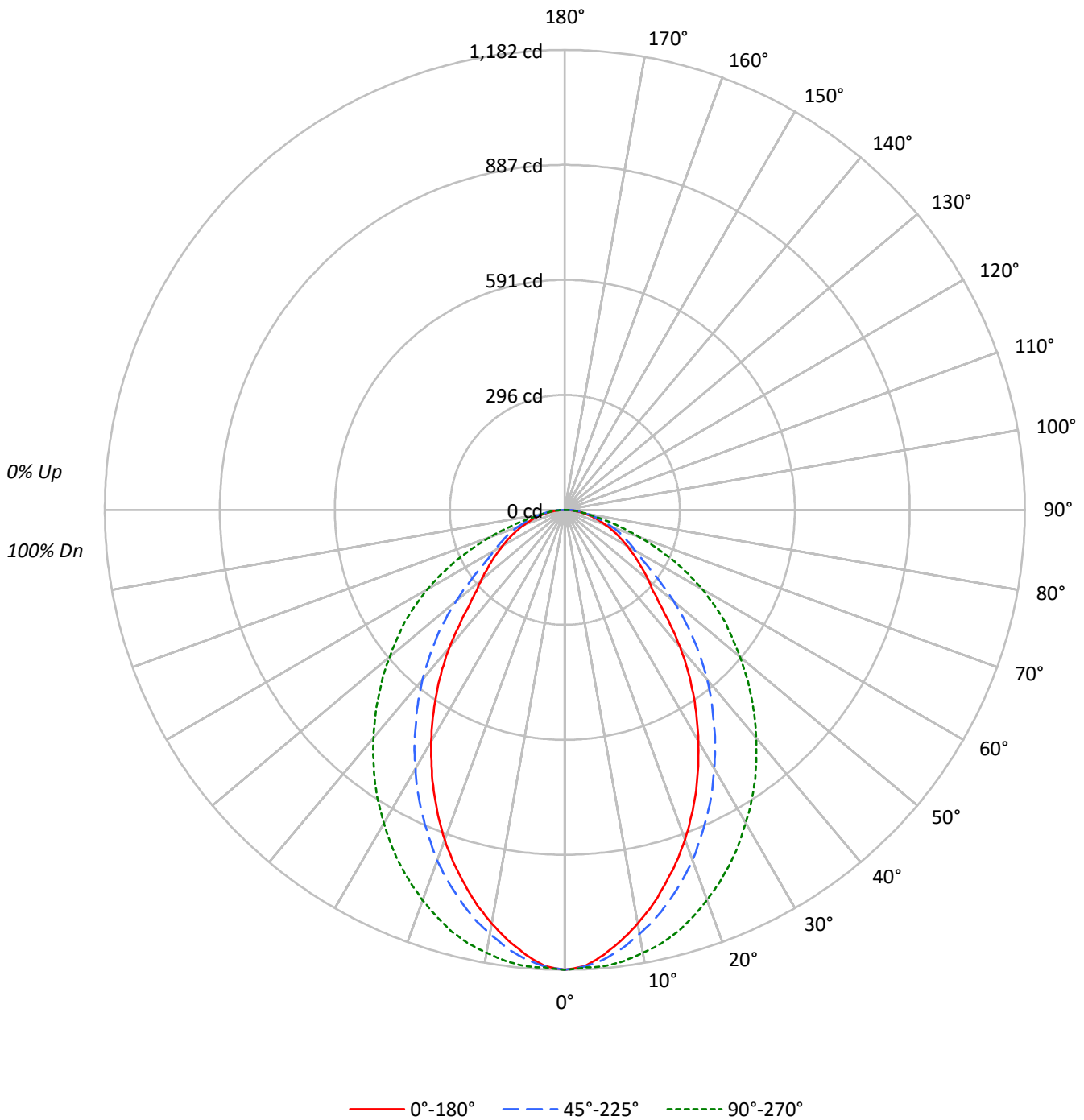
Lumens per Lamp: N/A
Luminaire Lumens: 2216.2 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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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°	8140	8140	8140
5°	7934	8015	8138
10°	7547	7737	8084
15°	7097	7408	7998
20°	6611	7027	7822
25°	6056	6577	7627
30°	5456	6104	7389
35°	4825	5609	7157
40°	4140	5106	6879
45°	3381	4542	6589
50°	2998	3896	6288
55°	2750	3233	6025
60°	2537	2863	5610
65°	2367	2752	5003
70°	2210	2615	4089
75°	2043	2450	3017
80°	1919	2296	2201
85°	1770	2236	1864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6589 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	4.9
10°-20°	294.7	13.3
20°-30°	405.0	18.3
30°-40°	429.2	19.4
40°-50°	374.7	16.9
50°-60°	284.6	12.8
60°-70°	190.7	8.6
70°-80°	98.3	4.4
80°-90°	29.5	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°	809.1	36.5
0°-40°	1238.3	55.9
0°-60°	1897.6	85.6
0°-90°	2216.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1148	1160	1160	1168	1178	107
15°	996	1014	1039	1085	1122	279
25°	797	822	866	938	1004	365
35°	574	607	667	762	852	358
45°	347	382	466	578	677	274
55°	229	236	269	396	502	205
65°	145	149	169	226	307	144
75°	77	82	92	98	113	82
85°	22	28	28	26	24	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.2	1182.2	1182.2	1182.2	1182.2
2.5°	1173.9	1182.2	1175.1	1175.1	1177.5
5°	1147.9	1159.7	1159.7	1168.0	1177.5
7.5°	1116.0	1129.0	1136.1	1155.0	1169.2
10°	1079.4	1093.6	1106.6	1134.9	1156.2
12.5°	1040.5	1055.8	1075.9	1112.5	1142.0
15°	995.6	1014.5	1039.3	1085.3	1122.0
17.5°	950.7	969.6	1000.3	1054.6	1096.0
20°	902.3	922.4	959.0	1018.0	1067.6
22.5°	850.3	872.8	911.7	979.0	1036.9
25°	797.2	822.0	865.7	937.7	1003.9
27.5°	741.7	771.2	818.4	895.2	968.4
30°	686.2	715.7	767.7	851.5	929.4
32.5°	630.7	662.5	719.2	807.8	891.7
35°	574.0	607.0	667.3	761.7	851.5
37.5°	518.5	551.5	618.8	716.9	807.8
40°	460.6	494.8	568.1	670.8	765.3
42.5°	401.5	438.2	517.3	623.6	721.6
45°	347.2	381.5	466.5	577.5	676.7
47.5°	307.1	329.5	415.7	530.3	633.0
50°	279.9	291.7	363.7	484.2	587.0
52.5°	252.7	262.2	315.3	437.0	543.3
55°	229.1	236.2	269.3	395.6	501.9
57.5°	205.5	212.6	233.8	354.3	453.5
60°	184.2	190.1	207.9	310.6	407.4
62.5°	164.2	168.9	187.8	269.3	357.8
65°	145.3	148.8	168.9	225.6	307.1
67.5°	126.4	129.9	150.0	184.2	252.7
70°	109.8	111.0	129.9	150.0	203.1
72.5°	93.3	94.5	109.8	121.6	155.9
75°	76.8	81.5	92.1	98.0	113.4
77.5°	62.6	68.5	74.4	76.8	76.8
80°	48.4	55.5	57.9	57.9	55.5
82.5°	35.4	41.3	42.5	40.2	37.8
85°	22.4	28.3	28.3	26.0	23.6
87.5°	10.6	15.4	15.4	14.2	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)