

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S1090D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

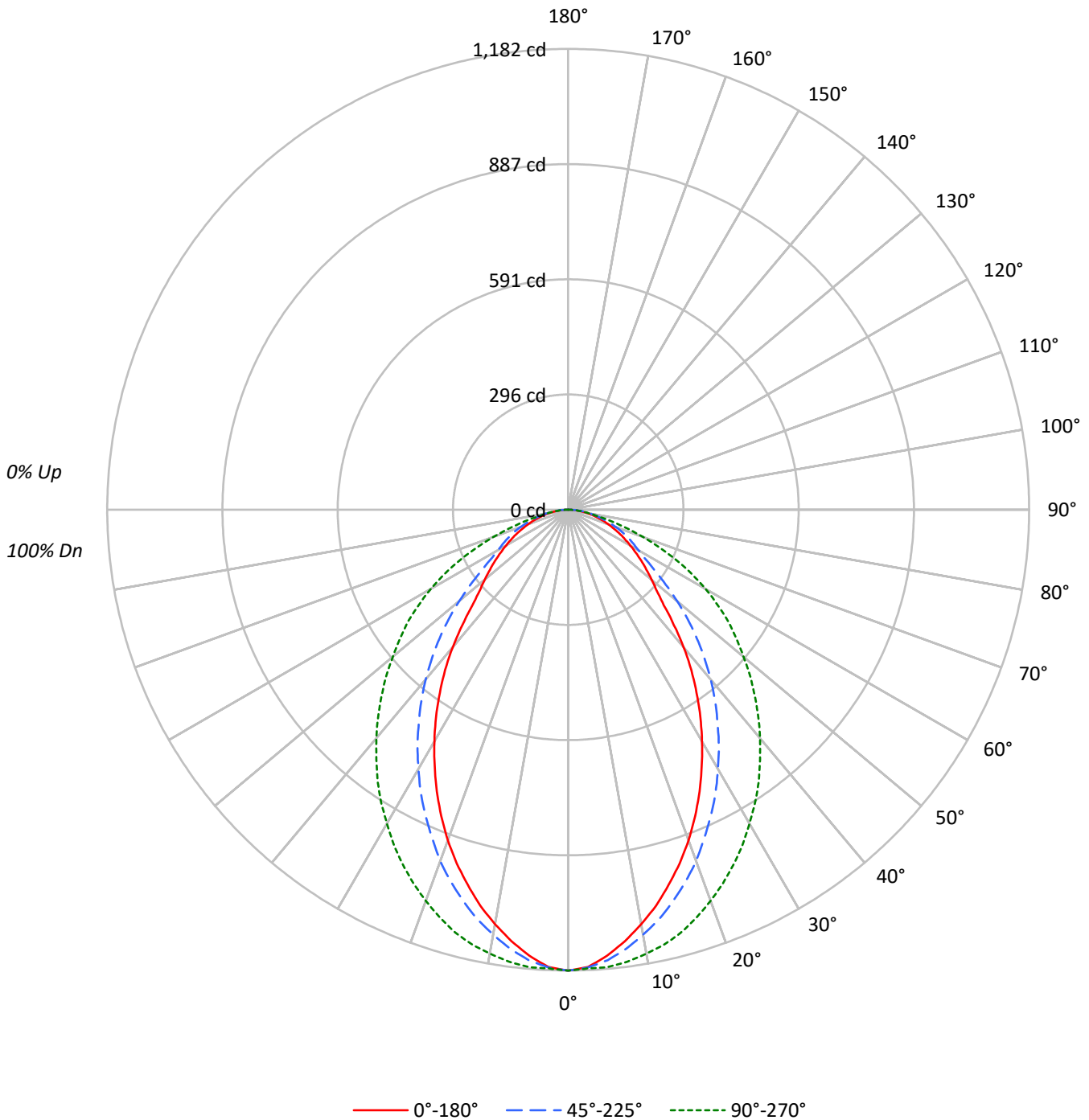
Lumens per Lamp: N/A
Luminaire Lumens: 2216.2 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44					44			
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30					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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.89	15.39	14.26	15.70	16.02	17.82	19.32	18.18	19.63	19.94
	3H	15.46	16.81	15.84	17.13	17.50	19.24	20.58	19.62	20.91	21.27
	4H	16.08	17.34	16.48	17.68	18.06	19.66	20.91	20.06	21.26	21.64
	6H	16.57	17.73	16.98	18.10	18.49	19.87	21.04	20.29	21.40	21.79
	8H	16.75	17.85	17.17	18.24	18.64	19.93	21.04	20.36	21.43	21.83
	12H	16.87	17.93	17.30	18.31	18.74	19.97	21.02	20.40	21.41	21.84
4H	2H	14.63	15.89	15.03	16.24	16.62	17.95	19.20	18.35	19.55	19.93
	3H	16.41	17.45	16.82	17.85	18.25	19.55	20.60	19.97	21.00	21.40
	4H	17.14	18.08	17.58	18.50	18.94	20.08	21.02	20.51	21.44	21.88
	6H	17.78	18.60	18.24	19.04	19.50	20.42	21.24	20.88	21.69	22.15
	8H	18.01	18.77	18.47	19.22	19.68	20.52	21.29	20.99	21.73	22.20
	12H	18.18	18.86	18.66	19.34	19.81	20.60	21.28	21.08	21.76	22.23
8H	4H	17.54	18.31	18.01	18.75	19.22	20.19	20.95	20.65	21.40	21.87
	6H	18.33	18.96	18.83	19.45	19.93	20.63	21.26	21.12	21.75	22.23
	8H	18.65	19.22	19.17	19.73	20.22	20.79	21.35	21.30	21.86	22.35
	12H	18.93	19.43	19.44	19.92	20.49	20.92	21.42	21.43	21.92	22.48
12H	4H	17.59	18.27	18.07	18.75	19.22	20.19	20.87	20.67	21.35	21.82
	6H	18.41	18.98	18.93	19.49	19.98	20.64	21.21	21.16	21.72	22.21
	8H	18.81	19.31	19.32	19.80	20.37	20.85	21.35	21.36	21.85	22.41