

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: P1061495

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061495
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-S1090D935-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

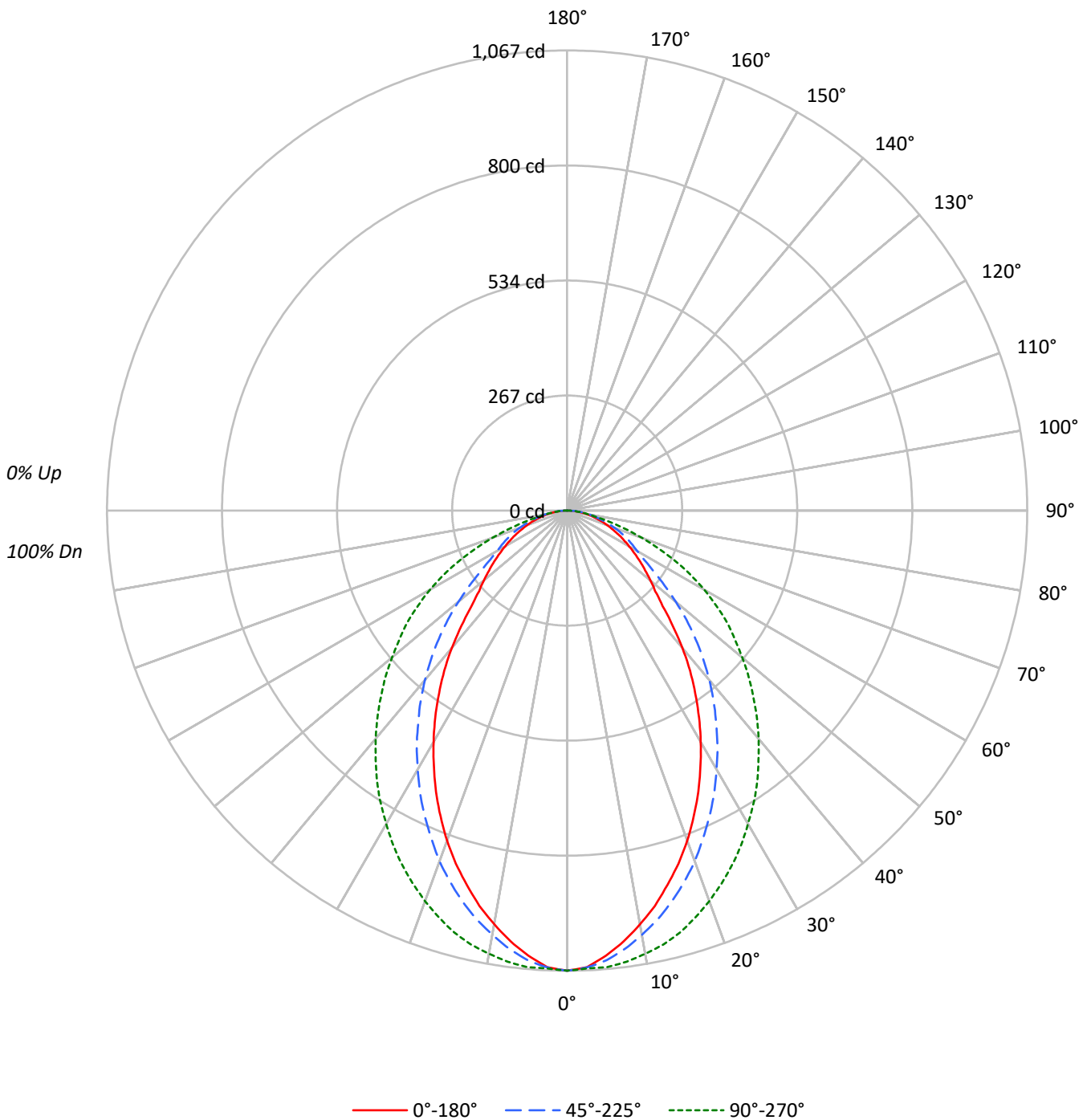
Lumens per Lamp: N/A
Luminaire Lumens: 2000.1 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7346	7346	7346
5°	7160	7234	7345
10°	6811	6982	7296
15°	6405	6686	7218
20°	5966	6342	7060
25°	5466	5936	6883
30°	4924	5508	6669
35°	4354	5062	6459
40°	3736	4608	6208
45°	3052	4099	5947
50°	2706	3517	5674
55°	2482	2917	5438
60°	2290	2583	5063
65°	2136	2483	4514
70°	1995	2359	3690
75°	1844	2211	2721
80°	1733	2070	1986
85°	1604	2022	1683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	4.9
10°-20°	266.0	13.3
20°-30°	365.5	18.3
30°-40°	387.4	19.4
40°-50°	338.2	16.9
50°-60°	256.9	12.8
60°-70°	172.1	8.6
70°-80°	88.7	4.4
80°-90°	26.6	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°	730.2	36.5
0°-40°	1117.6	55.9
0°-60°	1712.7	85.6
0°-90°	2000.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1036	1047	1047	1054	1063	97
15°	898	916	938	980	1013	252
25°	720	742	781	846	906	330
35°	518	548	602	688	768	323
45°	313	344	421	521	611	247
55°	207	213	243	357	453	185
65°	131	134	152	204	277	130
75°	69	74	83	88	102	74
85°	20	26	26	23	21	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.9	1066.9	1066.9	1066.9	1066.9
2.5°	1059.5	1066.9	1060.5	1060.5	1062.7
5°	1036.0	1046.7	1046.7	1054.1	1062.7
7.5°	1007.2	1019.0	1025.4	1042.4	1055.2
10°	974.2	987.0	998.7	1024.3	1043.5
12.5°	939.0	952.9	971.0	1004.0	1030.7
15°	898.5	915.6	938.0	979.5	1012.6
17.5°	858.0	875.1	902.8	951.8	989.1
20°	814.3	832.4	865.5	918.8	963.5
22.5°	767.4	787.7	822.9	883.6	935.8
25°	719.5	741.8	781.3	846.3	906.0
27.5°	669.4	696.0	738.6	807.9	874.0
30°	619.3	645.9	692.8	768.5	838.8
32.5°	569.2	598.0	649.1	729.1	804.7
35°	518.0	547.9	602.2	687.5	768.5
37.5°	467.9	497.8	558.5	647.0	729.1
40°	415.7	446.6	512.7	605.4	690.7
42.5°	362.4	395.4	466.9	562.8	651.2
45°	313.4	344.3	421.0	521.2	610.7
47.5°	277.1	297.4	375.2	478.6	571.3
50°	252.6	263.3	328.3	437.0	529.7
52.5°	228.1	236.6	284.6	394.4	490.3
55°	206.8	213.2	243.0	357.1	453.0
57.5°	185.5	191.9	211.0	319.8	409.3
60°	166.3	171.6	187.6	280.3	367.7
62.5°	148.2	152.4	169.5	243.0	323.0
65°	131.1	134.3	152.4	203.6	277.1
67.5°	114.0	117.2	135.4	166.3	228.1
70°	99.1	100.2	117.2	135.4	183.3
72.5°	84.2	85.3	99.1	109.8	140.7
75°	69.3	73.5	83.1	88.5	102.3
77.5°	56.5	61.8	67.1	69.3	69.3
80°	43.7	50.1	52.2	52.2	50.1
82.5°	32.0	37.3	38.4	36.2	34.1
85°	20.3	25.6	25.6	23.4	21.3
87.5°	9.6	13.9	13.9	12.8	9.6
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	13.54	15.03	13.90	15.35	15.66	17.46	18.96	17.83	19.27	19.59
	3H	15.11	16.45	15.48	16.78	17.14	18.89	20.23	19.26	20.56	20.92
	4H	15.72	16.98	16.12	17.33	17.71	19.30	20.56	19.70	20.91	21.29
	6H	16.21	17.38	16.63	17.74	18.14	19.52	20.68	19.93	21.05	21.44
	8H	16.39	17.50	16.82	17.89	18.29	19.58	20.68	20.00	21.07	21.47
	12H	16.51	17.57	16.94	17.95	18.38	19.61	20.67	20.04	21.05	21.48
4H	2H	14.27	15.53	14.67	15.88	16.26	17.59	18.85	17.99	19.20	19.58
	3H	16.05	17.10	16.46	17.50	17.90	19.20	20.24	19.61	20.64	21.05
	4H	16.79	17.73	17.22	18.14	18.58	19.73	20.67	20.16	21.08	21.52
	6H	17.42	18.24	17.88	18.68	19.14	20.07	20.89	20.53	21.33	21.79
	8H	17.65	18.42	18.11	18.86	19.33	20.17	20.93	20.63	21.38	21.84
	12H	17.83	18.51	18.31	18.99	19.46	20.24	20.92	20.72	21.40	21.87
8H	4H	17.19	17.95	17.65	18.40	18.86	19.83	20.60	20.30	21.04	21.51
	6H	17.97	18.60	18.47	19.10	19.57	20.27	20.90	20.77	21.39	21.87
	8H	18.30	18.86	18.81	19.37	19.86	20.43	21.00	20.94	21.51	21.99
	12H	18.57	19.07	19.08	19.57	20.13	20.56	21.07	21.07	21.56	22.12
12H	4H	17.23	17.91	17.71	18.39	18.86	19.83	20.52	20.32	20.99	21.47
	6H	18.06	18.62	18.57	19.13	19.62	20.29	20.86	20.80	21.37	21.85
	8H	18.45	18.95	18.96	19.45	20.01	20.50	21.00	21.01	21.49	22.05