

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: P1061972

Luminaire Tested: S125RDRP-H1270D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061972  
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-H1270D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

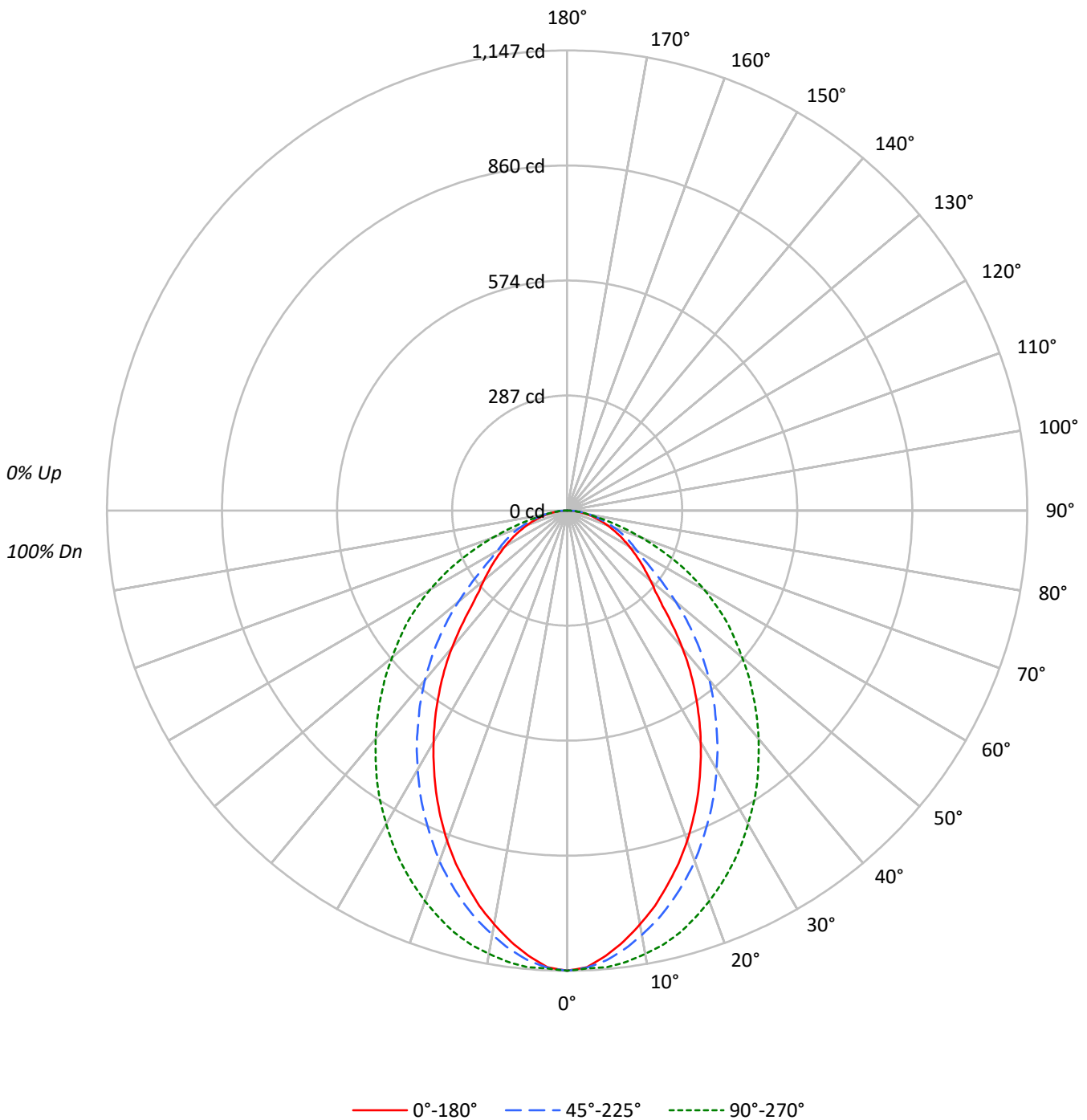
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2150.2 lumens  
Efficiency: N/A  
Efficacy: 58.9 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): 36.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	7897	7897	7897
5°	7697	7777	7896
10°	7322	7506	7843
15°	6885	7187	7759
20°	6414	6817	7589
25°	5876	6381	7399
30°	5293	5921	7170
35°	4681	5442	6944
40°	4017	4953	6674
45°	3280	4407	6393
50°	2909	3780	6100
55°	2668	3135	5846
60°	2461	2778	5443
65°	2296	2670	4853
70°	2146	2537	3968
75°	1982	2378	2926
80°	1864	2224	2137
85°	1722	2172	1809

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6393 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	4.9
10°-20°	285.9	13.3
20°-30°	392.9	18.3
30°-40°	416.4	19.4
40°-50°	363.5	16.9
50°-60°	276.2	12.8
60°-70°	185.0	8.6
70°-80°	95.4	4.4
80°-90°	28.6	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°	785.0	36.5
0°-40°	1201.4	55.9
0°-60°	1841.1	85.6
0°-90°	2150.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1114	1125	1125	1133	1142	104
15°	966	984	1008	1053	1088	271
25°	773	798	840	910	974	355
35°	557	589	647	739	826	347
45°	337	370	453	560	657	266
55°	222	229	261	384	487	199
65°	141	144	164	219	298	140
75°	74	79	89	95	110	80
85°	22	28	28	25	23	24
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1138.9	1147.0	1140.1	1140.1	1142.4
5°	1113.7	1125.2	1125.2	1133.2	1142.4
7.5°	1082.8	1095.4	1102.3	1120.6	1134.4
10°	1047.3	1061.0	1073.6	1101.1	1121.8
12.5°	1009.5	1024.4	1043.8	1079.4	1108.0
15°	965.9	984.3	1008.3	1053.0	1088.5
17.5°	922.4	940.7	970.5	1023.2	1063.3
20°	875.4	894.9	930.4	987.7	1035.8
22.5°	825.0	846.8	884.6	949.9	1006.0
25°	773.4	797.5	839.9	909.8	973.9
27.5°	719.6	748.2	794.0	868.5	939.6
30°	665.7	694.4	744.8	826.1	901.8
32.5°	611.9	642.8	697.8	783.7	865.1
35°	556.9	588.9	647.4	739.0	826.1
37.5°	503.0	535.1	600.4	695.5	783.7
40°	446.9	480.1	551.1	650.8	742.5
42.5°	389.6	425.1	501.9	605.0	700.1
45°	336.9	370.1	452.6	560.3	656.6
47.5°	297.9	319.7	403.3	514.5	614.2
50°	271.6	283.0	352.9	469.8	569.5
52.5°	245.2	254.4	305.9	424.0	527.1
55°	222.3	229.2	261.2	383.8	487.0
57.5°	199.4	206.2	226.9	343.7	440.0
60°	178.7	184.5	201.7	301.3	395.3
62.5°	159.3	163.9	182.2	261.2	347.2
65°	140.9	144.4	163.9	218.9	297.9
67.5°	122.6	126.0	145.5	178.7	245.2
70°	106.6	107.7	126.0	145.5	197.1
72.5°	90.5	91.7	106.6	118.0	151.2
75°	74.5	79.1	89.4	95.1	110.0
77.5°	60.7	66.5	72.2	74.5	74.5
80°	47.0	53.9	56.1	56.1	53.9
82.5°	34.4	40.1	41.2	39.0	36.7
85°	21.8	27.5	27.5	25.2	22.9
87.5°	10.3	14.9	14.9	13.7	10.3
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	13.79	15.28	14.15	15.60	15.91	17.71	19.21	18.08	19.52	19.84
	3H	15.36	16.70	15.74	17.03	17.39	19.14	20.48	19.51	20.81	21.17
	4H	15.97	17.23	16.37	17.58	17.96	19.55	20.81	19.95	21.16	21.54
	6H	16.47	17.63	16.88	18.00	18.39	19.77	20.93	20.18	21.30	21.69
	8H	16.64	17.75	17.07	18.14	18.54	19.83	20.93	20.25	21.32	21.72
	12H	16.76	17.82	17.19	18.20	18.63	19.86	20.92	20.29	21.30	21.73
4H	2H	14.52	15.78	14.92	16.13	16.51	17.84	19.10	18.24	19.45	19.83
	3H	16.30	17.35	16.71	17.75	18.15	19.45	20.49	19.86	20.89	21.30
	4H	17.04	17.98	17.47	18.40	18.83	19.98	20.92	20.41	21.33	21.77
	6H	17.67	18.49	18.13	18.94	19.40	20.32	21.14	20.78	21.58	22.04
	8H	17.90	18.67	18.37	19.11	19.58	20.42	21.18	20.88	21.63	22.10
	12H	18.08	18.76	18.56	19.24	19.71	20.49	21.17	20.97	21.65	22.12
8H	4H	17.44	18.20	17.90	18.65	19.12	20.08	20.85	20.55	21.29	21.76
	6H	18.23	18.86	18.72	19.35	19.83	20.52	21.15	21.02	21.65	22.12
	8H	18.55	19.12	19.06	19.63	20.12	20.68	21.25	21.20	21.76	22.25
	12H	18.82	19.33	19.33	19.82	20.38	20.82	21.32	21.33	21.81	22.37
12H	4H	17.48	18.17	17.97	18.64	19.12	20.08	20.77	20.57	21.25	21.72
	6H	18.31	18.88	18.82	19.39	19.88	20.54	21.11	21.05	21.62	22.10
	8H	18.70	19.21	19.21	19.70	20.26	20.75	21.25	21.26	21.74	22.31