

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



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: P1061978

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061978  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H1270D935-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

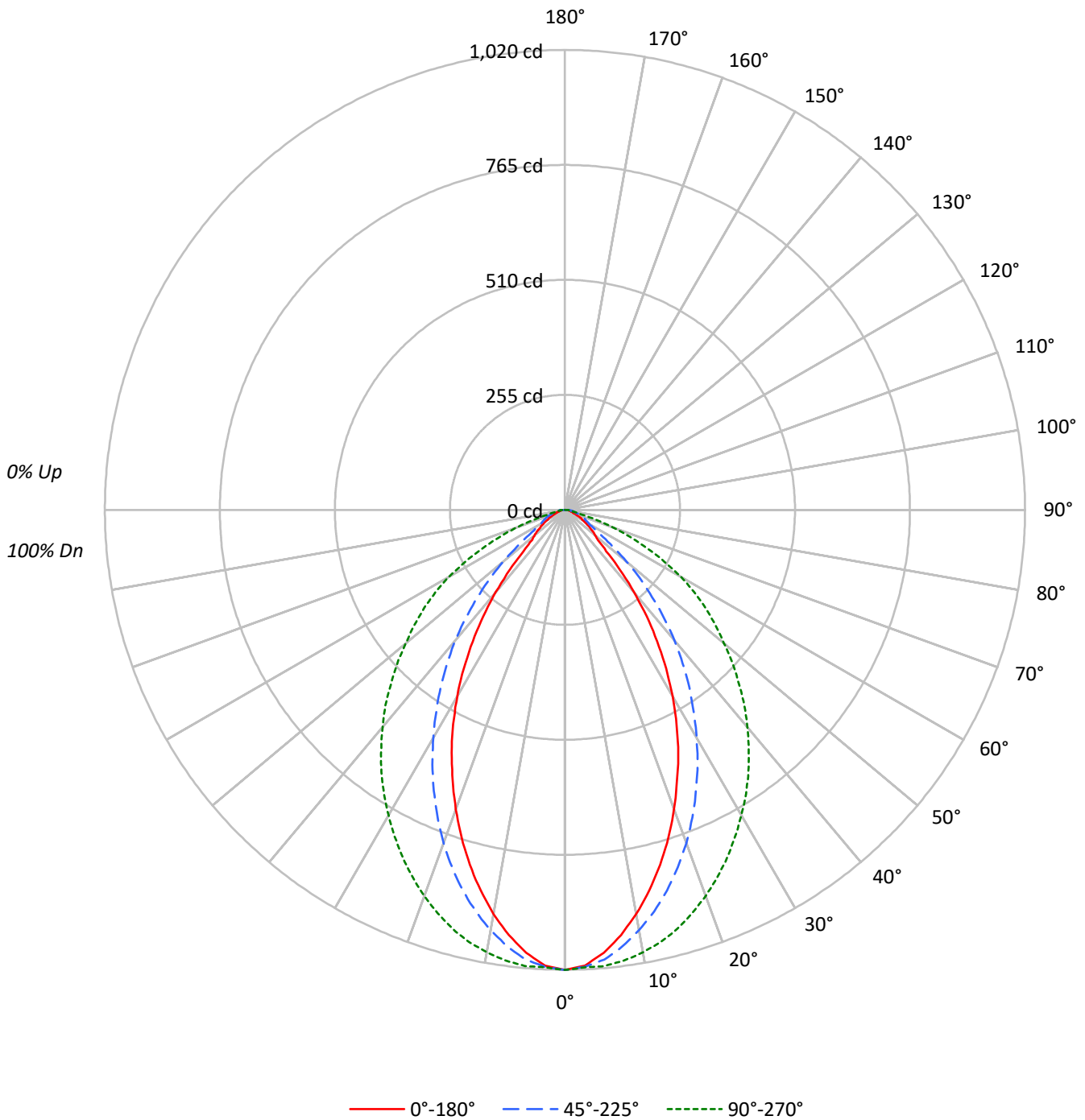
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1473.2 lumens  
Efficiency: N/A  
Efficacy: 40.4 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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 (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			100	
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79	
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70			70	
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			63	
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56			56	
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51			51	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46	
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7025	7025	7025
5°	6818	6918	7019
10°	6364	6617	6964
15°	5807	6229	6859
20°	5179	5764	6678
25°	4515	5223	6464
30°	3792	4638	6216
35°	2991	4039	5962
40°	2143	3394	5657
45°	1261	2663	5303
50°	933	1918	4926
55°	785	1162	4577
60°	633	850	4083
65°	494	808	3273
70°	415	755	2216
75°	386	676	966
80°	385	670	623
85°	482	861	671

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5303 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	6.4
10°-20°	247.0	16.8
20°-30°	322.8	21.9
30°-40°	314.2	21.3
40°-50°	234.8	15.9
50°-60°	145.6	9.9
60°-70°	76.5	5.2
70°-80°	27.9	1.9
80°-90°	10.5	0.7
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°	663.7	45.1
0°-40°	977.9	66.4
0°-60°	1358.3	92.2
0°-90°	1473.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	986	1000	1001	1007	1016	92
15°	815	839	874	927	962	227
25°	594	624	688	781	851	271
35°	356	395	480	609	709	221
45°	130	169	274	427	545	109
55°	65	69	97	252	381	59
65°	30	33	50	106	201	32
75°	14	17	25	28	36	16
85°	6	11	11	11	8	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1020.3	1020.3	1020.3	1020.3	1020.3
2.5°	1011.8	1020.3	1014.3	1014.3	1015.5
5°	986.4	999.7	1000.9	1007.0	1015.5
7.5°	951.3	967.1	976.7	994.9	1008.2
10°	910.2	928.3	946.5	976.7	996.1
12.5°	864.2	886.0	912.6	953.7	981.6
15°	814.6	838.8	873.9	927.1	962.2
17.5°	762.5	787.9	831.5	895.6	938.0
20°	706.8	734.7	786.7	859.3	911.4
22.5°	649.9	681.4	738.3	820.6	882.3
25°	594.3	624.5	687.5	780.7	850.9
27.5°	536.2	567.6	636.6	739.5	817.0
30°	476.9	510.8	583.4	697.1	781.9
32.5°	417.6	452.7	531.3	653.6	746.8
35°	355.8	394.6	480.5	608.8	709.3
37.5°	297.7	338.9	428.5	562.8	669.3
40°	238.4	280.8	377.6	518.0	629.4
42.5°	180.3	223.9	325.6	472.0	589.4
45°	129.5	169.4	273.5	427.2	544.6
47.5°	99.2	122.2	225.1	381.3	504.7
50°	87.1	94.4	179.1	336.5	459.9
52.5°	76.3	81.1	133.1	292.9	421.2
55°	65.4	69.0	96.8	251.7	381.3
57.5°	55.7	59.3	73.8	214.2	340.1
60°	46.0	49.6	61.7	176.7	296.5
62.5°	38.7	39.9	55.7	141.6	248.1
65°	30.3	32.7	49.6	106.5	200.9
67.5°	25.4	26.6	43.6	76.3	154.9
70°	20.6	21.8	37.5	53.3	110.1
72.5°	18.2	18.2	31.5	38.7	70.2
75°	14.5	16.9	25.4	27.8	36.3
77.5°	12.1	16.9	21.8	20.6	19.4
80°	9.7	15.7	16.9	16.9	15.7
82.5°	8.5	13.3	14.5	13.3	12.1
85°	6.1	10.9	10.9	10.9	8.5
87.5°	4.8	9.7	8.5	8.5	6.1
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	6.56	7.91	6.92	8.22	8.54	16.26	17.61	16.63	17.93	18.24
	3H	7.40	8.60	7.78	8.93	9.29	17.18	18.37	17.56	18.70	19.07
	4H	7.76	8.87	8.16	9.23	9.61	17.27	18.39	17.68	18.74	19.12
	6H	8.13	9.16	8.55	9.53	9.92	17.26	18.29	17.67	18.66	19.05
	8H	8.31	9.28	8.74	9.68	10.08	17.25	18.22	17.68	18.61	19.02
	12H	8.48	9.41	8.91	9.79	10.22	17.23	18.16	17.67	18.55	18.98
4H	2H	7.39	8.51	7.79	8.86	9.24	16.11	17.23	16.52	17.58	17.96
	3H	8.45	9.36	8.86	9.76	10.17	17.10	18.02	17.52	18.42	18.82
	4H	8.90	9.72	9.33	10.14	10.58	17.23	18.05	17.67	18.47	18.91
	6H	9.46	10.16	9.92	10.61	11.07	17.26	17.97	17.73	18.42	18.88
	8H	9.72	10.38	10.19	10.82	11.29	17.27	17.92	17.73	18.37	18.84
	12H	9.96	10.55	10.45	11.03	11.50	17.27	17.86	17.76	18.34	18.81
8H	4H	9.46	10.11	9.92	10.56	11.03	17.16	17.82	17.63	18.26	18.73
	6H	10.23	10.77	10.73	11.27	11.75	17.22	17.76	17.72	18.25	18.73
	8H	10.65	11.13	11.17	11.65	12.14	17.25	17.73	17.77	18.24	18.74
	12H	11.07	11.50	11.58	11.99	12.56	17.30	17.73	17.81	18.22	18.79
12H	4H	9.52	10.10	10.00	10.58	11.06	17.12	17.71	17.61	18.19	18.66
	6H	10.37	10.86	10.90	11.37	11.87	17.18	17.67	17.70	18.18	18.67
	8H	10.90	11.33	11.42	11.83	12.40	17.25	17.68	17.76	18.17	18.74