

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: P1061557

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

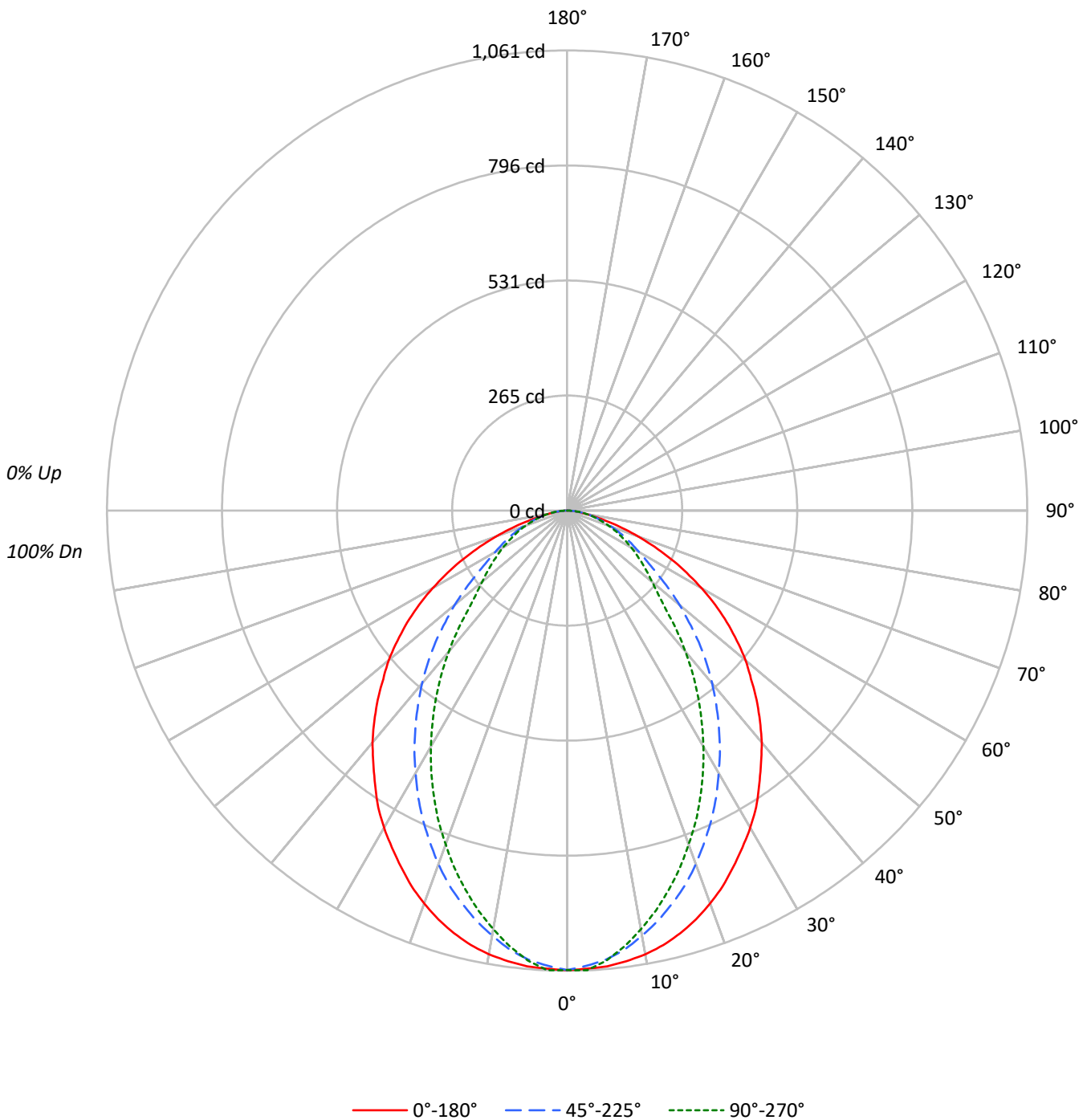
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2007.1 lumens  
Efficiency: N/A  
Efficacy: 48.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	108	104	100	97	100	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77					75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67					65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52					50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47					45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38					36				
9	61	48	41	35	60	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°	7295	7295	7295
5°	7291	7180	7196
10°	7263	6957	6852
15°	7192	6683	6453
20°	7063	6356	6002
25°	6887	5978	5523
30°	6713	5552	4994
35°	6488	5125	4429
40°	6276	4674	3815
45°	6016	4178	3126
50°	5754	3623	2736
55°	5399	3024	2527
60°	4927	2645	2360
65°	4311	2418	2193
70°	3497	2176	2037
75°	2509	1990	1897
80°	1733	1780	1780
85°	1272	1548	1635

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6016 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	4.9
10°-20°	266.4	13.3
20°-30°	368.3	18.3
30°-40°	392.3	19.5
40°-50°	344.6	17.2
50°-60°	261.3	13.0
60°-70°	169.6	8.5
70°-80°	84.1	4.2
80°-90°	22.0	1.1
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°	733.2	36.5
0°-40°	1125.5	56.1
0°-60°	1731.4	86.3
0°-90°	2007.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1055	1053	1039	1042	1041	100
15°	1009	986	938	916	905	284
25°	906	857	787	747	727	418
35°	772	701	610	554	527	483
45°	618	532	429	352	321	476
55°	450	361	252	217	210	401
65°	265	197	148	137	135	261
75°	94	83	75	72	71	105
85°	16	18	20	20	21	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1057.2	1059.5	1050.3	1058.3	1060.6
5°	1054.9	1052.6	1038.8	1042.2	1041.1
7.5°	1048.0	1043.4	1020.4	1018.1	1013.5
10°	1038.8	1027.3	995.1	987.0	980.1
12.5°	1026.1	1007.7	968.6	952.5	944.5
15°	1008.9	985.9	937.6	915.7	905.3
17.5°	988.2	956.0	905.3	875.4	863.9
20°	964.0	926.1	867.4	832.9	819.1
22.5°	937.6	892.7	827.1	790.3	775.4
25°	906.5	857.0	786.9	746.6	727.0
27.5°	875.4	820.2	744.3	699.4	678.7
30°	844.4	781.1	698.3	650.0	628.1
32.5°	811.0	740.8	655.7	602.8	577.5
35°	771.9	700.6	609.7	554.5	526.9
37.5°	733.9	658.0	564.8	502.7	476.3
40°	698.3	617.8	520.0	452.1	424.5
42.5°	658.0	575.2	475.1	403.8	372.7
45°	617.8	531.5	429.1	352.0	321.0
47.5°	575.2	490.1	380.8	304.9	284.1
50°	537.2	447.5	338.2	269.2	255.4
52.5°	493.5	406.1	294.5	241.6	232.4
55°	449.8	361.2	251.9	217.4	210.5
57.5°	404.9	321.0	218.6	196.7	189.8
60°	357.8	279.5	192.1	174.9	171.4
62.5°	310.6	237.0	169.1	156.5	151.8
65°	264.6	196.7	148.4	136.9	134.6
67.5°	217.4	159.9	127.7	119.6	118.5
70°	173.7	130.0	108.1	103.5	101.2
72.5°	133.4	103.5	90.9	87.4	86.3
75°	94.3	82.8	74.8	72.5	71.3
77.5°	63.3	63.3	59.8	57.5	58.7
80°	43.7	46.0	44.9	44.9	44.9
82.5°	28.8	31.1	32.2	32.2	32.2
85°	16.1	18.4	19.6	19.6	20.7
87.5°	5.8	6.9	8.1	9.2	9.2
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	17.46	18.95	17.82	19.26	19.58	13.70	15.19	14.06	15.50	15.82
	3H	18.77	20.11	19.15	20.43	20.80	15.28	16.62	15.66	16.95	17.31
	4H	19.14	20.39	19.54	20.74	21.12	15.88	17.14	16.28	17.49	17.86
	6H	19.31	20.47	19.73	20.84	21.23	16.36	17.51	16.77	17.88	18.27
	8H	19.35	20.45	19.78	20.84	21.24	16.52	17.62	16.94	18.01	18.41
	12H	19.36	20.42	19.79	20.80	21.23	16.63	17.68	17.06	18.06	18.49
4H	2H	17.57	18.82	17.97	19.17	19.55	14.36	15.61	14.76	15.96	16.34
	3H	19.06	20.09	19.47	20.49	20.90	16.14	17.18	16.55	17.58	17.98
	4H	19.53	20.46	19.96	20.88	21.32	16.86	17.79	17.29	18.21	18.65
	6H	19.82	20.63	20.28	21.07	21.53	17.45	18.26	17.91	18.70	19.16
	8H	19.89	20.64	20.35	21.09	21.56	17.65	18.41	18.12	18.86	19.32
	12H	19.93	20.60	20.41	21.08	21.55	17.81	18.48	18.29	18.96	19.43
8H	4H	19.61	20.37	20.08	20.82	21.28	17.17	17.93	17.63	18.37	18.84
	6H	19.98	20.60	20.48	21.09	21.57	17.88	18.50	18.38	18.99	19.47
	8H	20.09	20.66	20.61	21.17	21.65	18.16	18.72	18.67	19.23	19.72
	12H	20.18	20.68	20.69	21.17	21.74	18.39	18.88	18.90	19.37	19.94
12H	4H	19.61	20.28	20.09	20.76	21.23	17.20	17.87	17.68	18.35	18.82
	6H	19.98	20.54	20.50	21.05	21.54	17.93	18.49	18.44	19.00	19.49
	8H	20.14	20.64	20.65	21.13	21.69	18.27	18.76	18.78	19.25	19.82