

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: P1061527

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D835-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

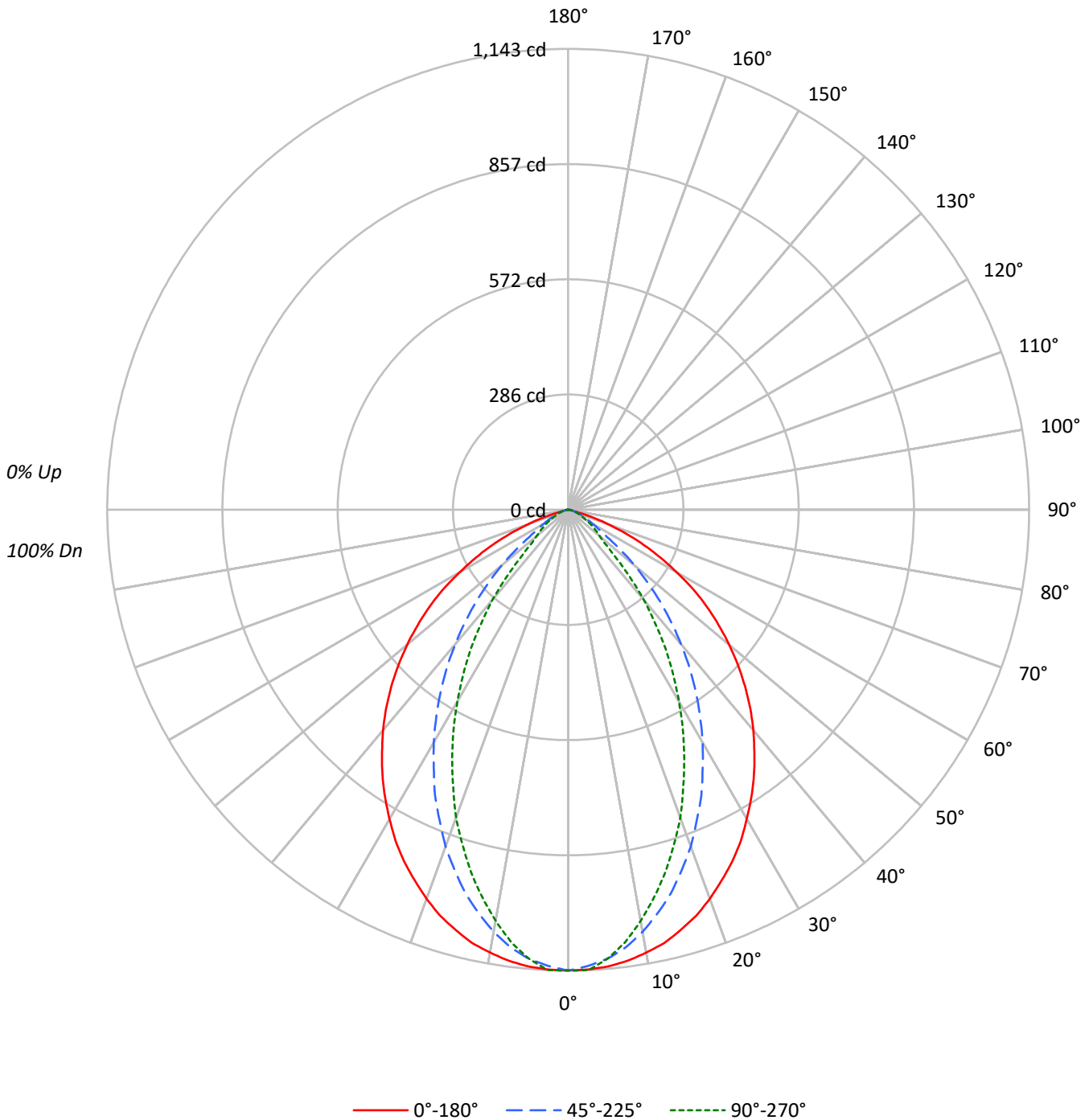
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1652.9 lumens  
Efficiency: N/A  
Efficacy: 39.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	7869	7869	7869
5°	7859	7728	7728
10°	7798	7432	7239
15°	7691	7018	6636
20°	7523	6512	5958
25°	7314	5936	5174
30°	7042	5300	4364
35°	6750	4638	3539
40°	6422	3916	2624
45°	6038	3139	1583
50°	5584	2302	1089
55°	5038	1412	906
60°	4280	960	720
65°	3384	733	569
70°	2134	525	467
75°	694	386	386
80°	230	289	345
85°	118	229	229

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6038 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	6.4
10°-20°	279.2	16.9
20°-30°	367.2	22.2
30°-40°	360.8	21.8
40°-50°	273.0	16.5
50°-60°	165.5	10.0
60°-70°	78.1	4.7
70°-80°	20.4	1.2
80°-90°	3.1	0.2
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°	752.0	45.5
0°-40°	1112.8	67.3
0°-60°	1551.3	93.9
0°-90°	1652.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1137	1134	1118	1120	1118	108
15°	1079	1050	985	947	931	304
25°	963	890	781	709	681	443
35°	803	696	552	454	421	501
45°	620	488	322	205	163	477
55°	420	288	118	80	76	374
65°	208	106	45	38	35	205
75°	26	17	14	14	14	40
85°	2	2	3	3	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	1141.4	1141.4	1132.7	1142.9	1142.9
5°	1137.1	1134.2	1118.2	1119.7	1118.2
7.5°	1128.4	1122.6	1095.0	1087.7	1081.9
10°	1115.3	1103.7	1063.0	1045.6	1035.4
12.5°	1100.8	1080.4	1025.3	1000.6	984.6
15°	1079.0	1049.9	984.6	946.8	930.9
17.5°	1055.8	1013.6	936.7	891.7	871.3
20°	1026.7	977.3	888.8	833.6	813.2
22.5°	994.8	936.7	833.6	772.6	745.0
25°	962.8	890.2	781.3	708.7	681.1
27.5°	926.5	843.7	721.7	646.2	615.7
30°	885.8	797.3	666.6	588.1	548.9
32.5°	845.2	749.3	608.5	522.8	483.6
35°	803.1	695.6	551.8	454.5	421.1
37.5°	758.1	644.8	493.8	392.1	352.9
40°	714.5	594.0	435.7	328.2	291.9
42.5°	668.0	543.1	377.6	265.8	225.1
45°	620.1	487.9	322.4	204.8	162.6
47.5°	570.7	438.6	267.2	151.0	122.0
50°	521.3	386.3	214.9	111.8	101.7
52.5°	470.5	335.5	162.6	92.9	88.6
55°	419.7	287.5	117.6	79.9	75.5
57.5°	367.4	235.3	88.6	68.3	63.9
60°	310.8	188.8	69.7	56.6	52.3
62.5°	258.5	148.1	56.6	46.5	43.6
65°	207.7	106.0	45.0	37.8	34.9
67.5°	155.4	71.2	34.9	29.0	29.0
70°	106.0	46.5	26.1	23.2	23.2
72.5°	63.9	27.6	18.9	18.9	18.9
75°	26.1	17.4	14.5	14.5	14.5
77.5°	8.7	10.2	10.2	11.6	11.6
80°	5.8	5.8	7.3	8.7	8.7
82.5°	2.9	4.4	4.4	5.8	5.8
85°	1.5	1.5	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5
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	16.50	17.83	16.86	18.14	18.46	7.16	8.49	7.52	8.80	9.11
	3H	17.20	18.38	17.58	18.71	19.08	7.93	9.11	8.31	9.44	9.81
	4H	17.22	18.32	17.62	18.67	19.05	8.18	9.28	8.58	9.63	10.01
	6H	17.15	18.16	17.57	18.53	18.92	8.36	9.37	8.77	9.74	10.13
	8H	17.11	18.06	17.54	18.45	18.86	8.40	9.36	8.83	9.75	10.15
	12H	17.07	17.98	17.50	18.36	18.79	8.41	9.32	8.84	9.70	10.13
4H	2H	16.33	17.42	16.73	17.77	18.16	7.64	8.74	8.04	9.09	9.47
	3H	17.07	17.97	17.49	18.37	18.77	8.55	9.44	8.96	9.84	10.25
	4H	17.09	17.89	17.53	18.31	18.75	8.86	9.65	9.29	10.07	10.52
	6H	17.03	17.72	17.49	18.16	18.63	9.12	9.80	9.58	10.25	10.71
	8H	16.98	17.62	17.45	18.06	18.54	9.18	9.82	9.65	10.27	10.74
	12H	16.94	17.50	17.42	17.98	18.46	9.21	9.77	9.69	10.25	10.73
8H	4H	16.97	17.61	17.44	18.06	18.53	8.97	9.61	9.44	10.06	10.53
	6H	16.90	17.42	17.40	17.92	18.40	9.29	9.81	9.79	10.31	10.79
	8H	16.85	17.31	17.37	17.83	18.32	9.39	9.86	9.92	10.38	10.87
	12H	16.81	17.22	17.32	17.71	18.28	9.46	9.87	9.97	10.36	10.93
12H	4H	16.93	17.49	17.42	17.98	18.45	8.94	9.51	9.43	9.99	10.46
	6H	16.84	17.31	17.36	17.82	18.32	9.26	9.73	9.78	10.24	10.73
	8H	16.81	17.22	17.32	17.71	18.29	9.40	9.81	9.91	10.31	10.88