

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: P1061575

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061575  
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-S1270D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

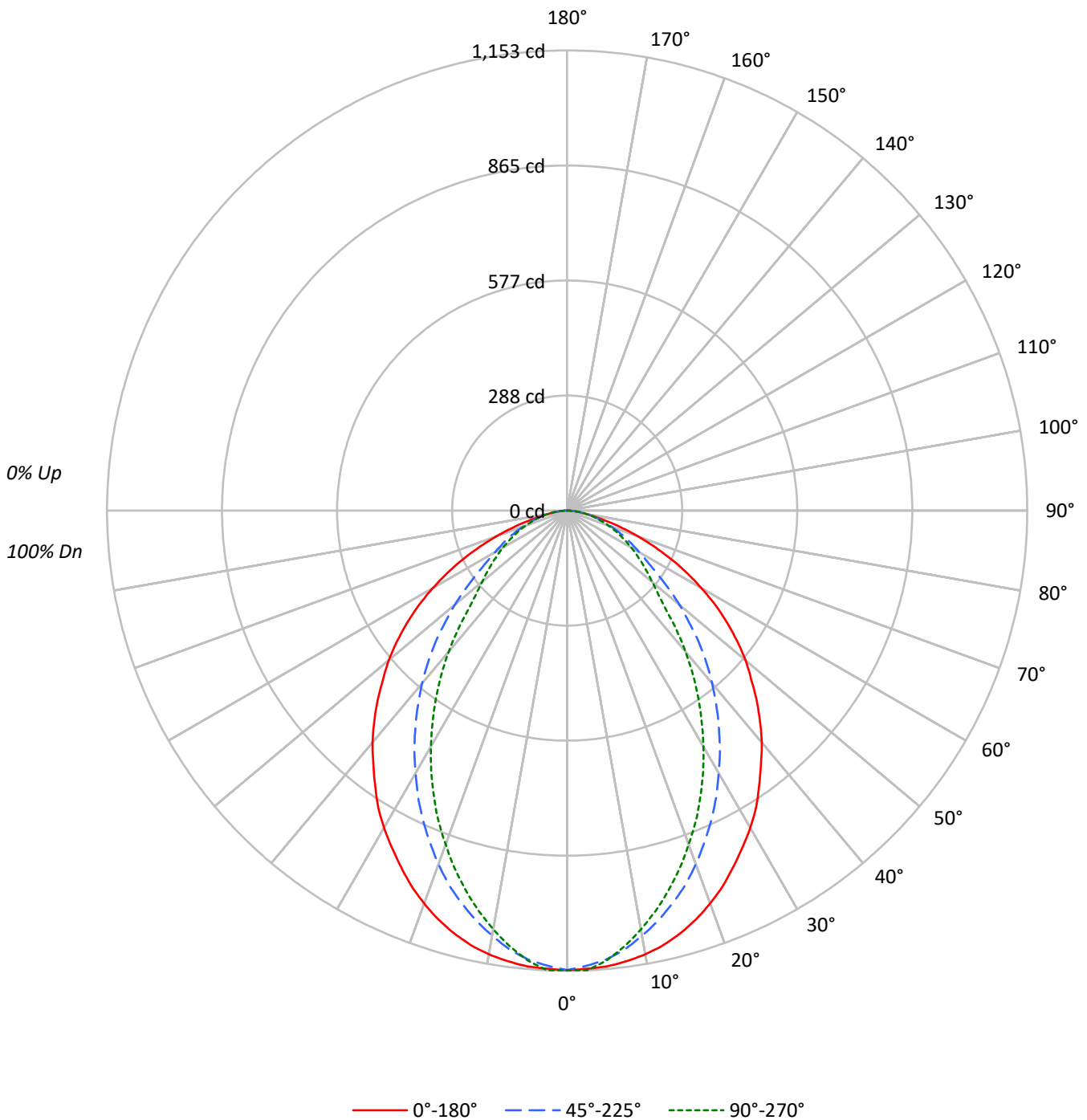
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2181.5 lumens  
Efficiency: N/A  
Efficacy: 52.2 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 (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	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	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°	7928	7928	7928
5°	7924	7803	7820
10°	7893	7561	7448
15°	7816	7264	7014
20°	7677	6907	6523
25°	7485	6497	6003
30°	7296	6034	5428
35°	7052	5570	4813
40°	6821	5079	4147
45°	6538	4541	3396
50°	6254	3938	2974
55°	5869	3287	2747
60°	5354	2875	2565
65°	4686	2628	2383
70°	3801	2365	2214
75°	2727	2163	2062
80°	1883	1935	1935
85°	1382	1683	1777

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6538 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	4.9
10°-20°	289.6	13.3
20°-30°	400.3	18.3
30°-40°	426.3	19.5
40°-50°	374.5	17.2
50°-60°	284.0	13.0
60°-70°	184.4	8.5
70°-80°	91.4	4.2
80°-90°	23.9	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°	796.9	36.5
0°-40°	1223.3	56.1
0°-60°	1881.8	86.3
0°-90°	2181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1146	1144	1129	1133	1132	109
15°	1096	1072	1019	995	984	309
25°	985	932	855	812	790	454
35°	839	761	663	603	573	525
45°	671	578	466	383	349	518
55°	489	393	274	236	229	436
65°	288	214	161	149	146	284
75°	102	90	81	79	78	114
85°	18	20	21	21	22	21
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1151.5	1151.5	1151.5	1151.5	1151.5
2.5°	1149.0	1151.5	1141.5	1150.3	1152.8
5°	1146.5	1144.0	1129.0	1132.8	1131.5
7.5°	1139.0	1134.0	1109.0	1106.5	1101.5
10°	1129.0	1116.5	1081.5	1072.8	1065.3
12.5°	1115.3	1095.3	1052.8	1035.3	1026.5
15°	1096.5	1071.5	1019.0	995.2	984.0
17.5°	1074.0	1039.0	984.0	951.5	939.0
20°	1047.8	1006.5	942.7	905.2	890.2
22.5°	1019.0	970.2	899.0	859.0	842.7
25°	985.2	931.5	855.2	811.5	790.2
27.5°	951.5	891.5	809.0	760.2	737.7
30°	917.7	849.0	758.9	706.4	682.7
32.5°	881.5	805.2	712.7	655.2	627.7
35°	839.0	761.4	662.7	602.6	572.6
37.5°	797.7	715.2	613.9	546.4	517.6
40°	758.9	671.4	565.1	491.4	461.4
42.5°	715.2	625.2	516.4	438.9	405.1
45°	671.4	577.6	466.4	382.6	348.8
47.5°	625.2	532.6	413.9	331.3	308.8
50°	583.9	486.4	367.6	292.6	277.6
52.5°	536.4	441.4	320.1	262.6	252.6
55°	488.9	392.6	273.8	236.3	228.8
57.5°	440.1	348.8	237.6	213.8	206.3
60°	388.8	303.8	208.8	190.0	186.3
62.5°	337.6	257.6	183.8	170.0	165.0
65°	287.6	213.8	161.3	148.8	146.3
67.5°	236.3	173.8	138.8	130.0	128.8
70°	188.8	141.3	117.5	112.5	110.0
72.5°	145.0	112.5	98.8	95.0	93.8
75°	102.5	90.0	81.3	78.8	77.5
77.5°	68.8	68.8	65.0	62.5	63.8
80°	47.5	50.0	48.8	48.8	48.8
82.5°	31.3	33.8	35.0	35.0	35.0
85°	17.5	20.0	21.3	21.3	22.5
87.5°	6.3	7.5	8.8	10.0	10.0
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	17.75	19.24	18.11	19.55	19.87	13.99	15.48	14.35	15.79	16.11
	3H	19.06	20.39	19.44	20.72	21.08	15.57	16.91	15.95	17.24	17.60
	4H	19.43	20.68	19.83	21.03	21.41	16.17	17.43	16.57	17.78	18.15
	6H	19.60	20.76	20.02	21.13	21.52	16.65	17.80	17.06	18.17	18.56
	8H	19.64	20.74	20.07	21.13	21.53	16.81	17.91	17.23	18.30	18.70
	12H	19.65	20.71	20.08	21.09	21.52	16.92	17.97	17.35	18.35	18.78
4H	2H	17.86	19.11	18.26	19.46	19.84	14.65	15.90	15.05	16.25	16.63
	3H	19.35	20.38	19.76	20.78	21.19	16.43	17.47	16.84	17.87	18.27
	4H	19.82	20.75	20.25	21.17	21.61	17.15	18.08	17.58	18.50	18.94
	6H	20.11	20.92	20.56	21.36	21.82	17.74	18.55	18.20	18.99	19.45
	8H	20.18	20.93	20.64	21.38	21.85	17.94	18.70	18.41	19.15	19.61
	12H	20.22	20.89	20.70	21.37	21.84	18.10	18.77	18.58	19.25	19.72
8H	4H	19.90	20.66	20.37	21.11	21.57	17.46	18.22	17.92	18.66	19.13
	6H	20.27	20.89	20.76	21.38	21.86	18.17	18.79	18.67	19.28	19.76
	8H	20.38	20.94	20.90	21.45	21.94	18.45	19.01	18.96	19.52	20.01
	12H	20.47	20.97	20.98	21.46	22.02	18.68	19.17	19.19	19.66	20.23
12H	4H	19.90	20.57	20.38	21.05	21.52	17.49	18.16	17.97	18.64	19.11
	6H	20.27	20.83	20.79	21.34	21.83	18.22	18.78	18.73	19.29	19.78
	8H	20.43	20.93	20.94	21.42	21.98	18.55	19.05	19.07	19.54	20.11