

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: P1061584

Luminaire Tested: S125RDRP-S1270D940-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061584  
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-S1270D940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

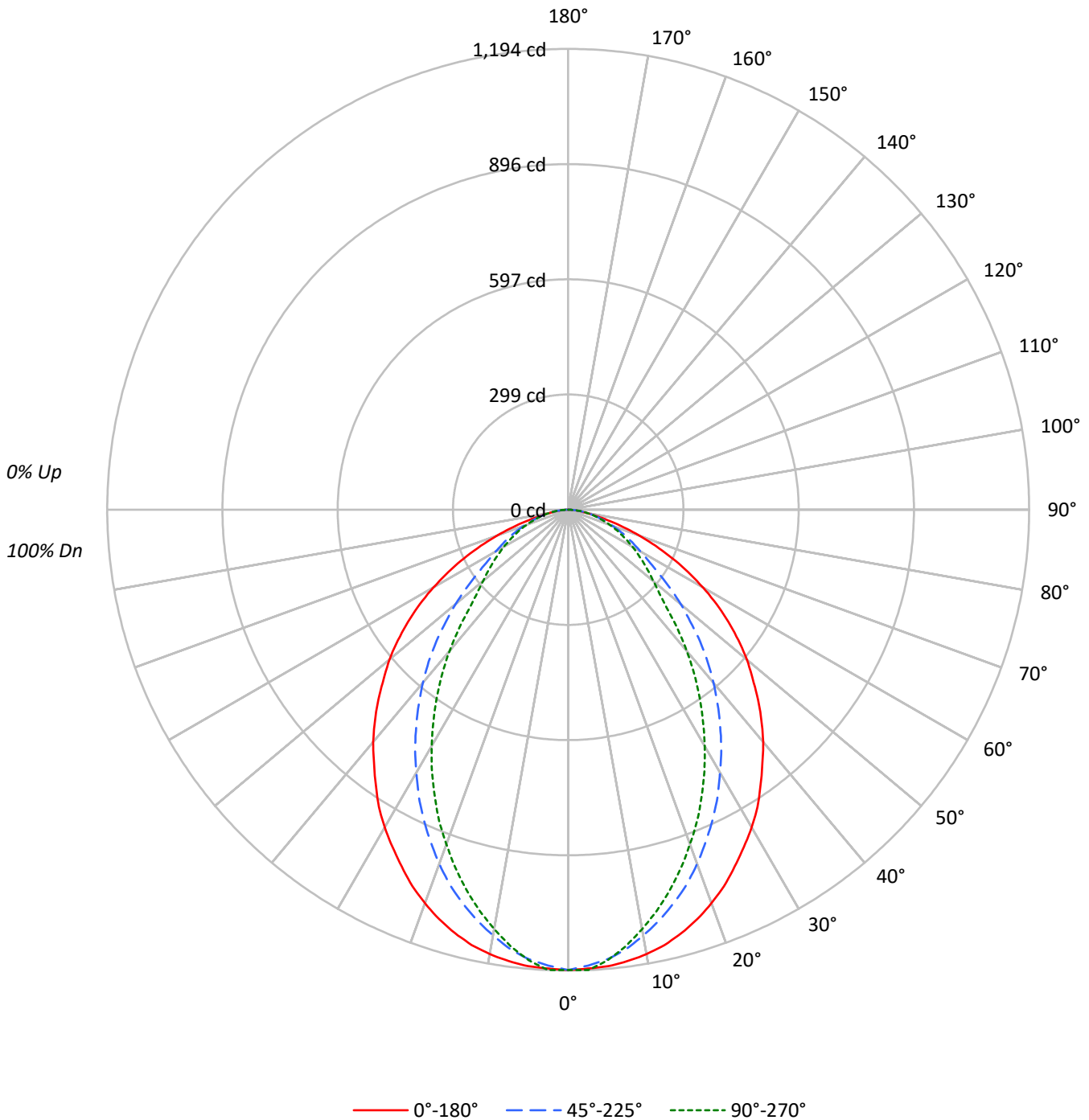
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2259.2 lumens  
Efficiency: N/A  
Efficacy: 54.0 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	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													87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75													75															
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65													65															
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57													57															
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50													50															
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45													45															
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36													36															
9	61	48	41	35	60	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°	8211	8211	8211
5°	8207	8082	8100
10°	8175	7831	7714
15°	8095	7523	7264
20°	7951	7154	6756
25°	7752	6729	6217
30°	7557	6249	5621
35°	7303	5769	4985
40°	7065	5261	4294
45°	6771	4703	3518
50°	6477	4078	3080
55°	6078	3404	2845
60°	5545	2979	2656
65°	4852	2721	2468
70°	3936	2450	2295
75°	2825	2240	2136
80°	1951	2002	2002
85°	1430	1738	1841

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6771 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.9	4.9
10°-20°	299.9	13.3
20°-30°	414.5	18.3
30°-40°	441.5	19.5
40°-50°	387.9	17.2
50°-60°	294.1	13.0
60°-70°	191.0	8.5
70°-80°	94.6	4.2
80°-90°	24.8	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°	825.3	36.5
0°-40°	1266.9	56.1
0°-60°	1948.9	86.3
0°-90°	2259.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1187	1185	1169	1173	1172	113
15°	1136	1110	1055	1031	1019	320
25°	1020	965	886	840	818	470
35°	869	789	686	624	593	544
45°	695	598	483	396	361	536
55°	506	407	284	245	237	452
65°	298	221	167	154	152	294
75°	106	93	84	82	80	118
85°	18	21	22	22	23	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1192.6	1192.6	1192.6	1192.6	1192.6
2.5°	1190.0	1192.6	1182.3	1191.3	1193.9
5°	1187.4	1184.8	1169.3	1173.2	1171.9
7.5°	1179.7	1174.5	1148.6	1146.0	1140.8
10°	1169.3	1156.4	1120.1	1111.0	1103.3
12.5°	1155.1	1134.3	1090.3	1072.2	1063.1
15°	1135.6	1109.7	1055.4	1030.7	1019.1
17.5°	1112.3	1076.1	1019.1	985.4	972.5
20°	1085.1	1042.4	976.4	937.5	922.0
22.5°	1055.4	1004.9	931.0	889.6	872.8
25°	1020.4	964.7	885.7	840.4	818.4
27.5°	985.4	923.3	837.8	787.3	764.0
30°	950.5	879.2	786.0	731.6	707.0
32.5°	912.9	833.9	738.1	678.5	650.0
35°	868.9	788.6	686.3	624.1	593.1
37.5°	826.2	740.7	635.8	565.9	536.1
40°	786.0	695.4	585.3	508.9	477.8
42.5°	740.7	647.5	534.8	454.5	419.6
45°	695.4	598.2	483.0	396.2	361.3
47.5°	647.5	551.6	428.6	343.2	319.8
50°	604.7	503.7	380.7	303.0	287.5
52.5°	555.5	457.1	331.5	271.9	261.6
55°	506.3	406.6	283.6	244.7	237.0
57.5°	455.8	361.3	246.0	221.4	213.7
60°	402.7	314.7	216.3	196.8	192.9
62.5°	349.6	266.8	190.4	176.1	170.9
65°	297.8	221.4	167.0	154.1	151.5
67.5°	244.7	180.0	143.7	134.7	133.4
70°	195.5	146.3	121.7	116.5	114.0
72.5°	150.2	116.5	102.3	98.4	97.1
75°	106.2	93.2	84.2	81.6	80.3
77.5°	71.2	71.2	67.3	64.7	66.0
80°	49.2	51.8	50.5	50.5	50.5
82.5°	32.4	35.0	36.3	36.3	36.3
85°	18.1	20.7	22.0	22.0	23.3
87.5°	6.5	7.8	9.1	10.4	10.4
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	17.87	19.36	18.23	19.67	19.99	14.11	15.60	14.47	15.91	16.23
	3H	19.18	20.52	19.56	20.84	21.21	15.69	17.03	16.07	17.36	17.72
	4H	19.55	20.80	19.95	21.15	21.53	16.30	17.55	16.70	17.90	18.28
	6H	19.72	20.88	20.14	21.25	21.64	16.77	17.92	17.18	18.29	18.68
	8H	19.76	20.86	20.19	21.25	21.65	16.93	18.03	17.35	18.42	18.82
	12H	19.77	20.83	20.21	21.21	21.64	17.04	18.09	17.47	18.47	18.90
4H	2H	17.98	19.23	18.38	19.58	19.96	14.77	16.02	15.17	16.37	16.75
	3H	19.47	20.51	19.88	20.91	21.31	16.55	17.59	16.96	17.99	18.39
	4H	19.94	20.88	20.38	21.29	21.73	17.27	18.20	17.70	18.62	19.06
	6H	20.23	21.04	20.69	21.48	21.94	17.86	18.67	18.32	19.11	19.57
	8H	20.30	21.05	20.76	21.50	21.97	18.06	18.82	18.53	19.27	19.73
	12H	20.34	21.01	20.82	21.49	21.96	18.22	18.90	18.70	19.37	19.85
8H	4H	20.03	20.78	20.49	21.23	21.70	17.58	18.34	18.05	18.78	19.25
	6H	20.39	21.01	20.89	21.51	21.98	18.29	18.91	18.79	19.40	19.88
	8H	20.51	21.07	21.02	21.58	22.07	18.57	19.13	19.08	19.64	20.13
	12H	20.59	21.09	21.10	21.58	22.15	18.80	19.29	19.31	19.79	20.35
12H	4H	20.02	20.70	20.50	21.17	21.65	17.61	18.28	18.09	18.76	19.23
	6H	20.39	20.95	20.91	21.46	21.95	18.34	18.90	18.85	19.41	19.90
	8H	20.55	21.05	21.06	21.54	22.11	18.68	19.17	19.19	19.66	20.23