

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: P1061584

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
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: S125RDR-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: -

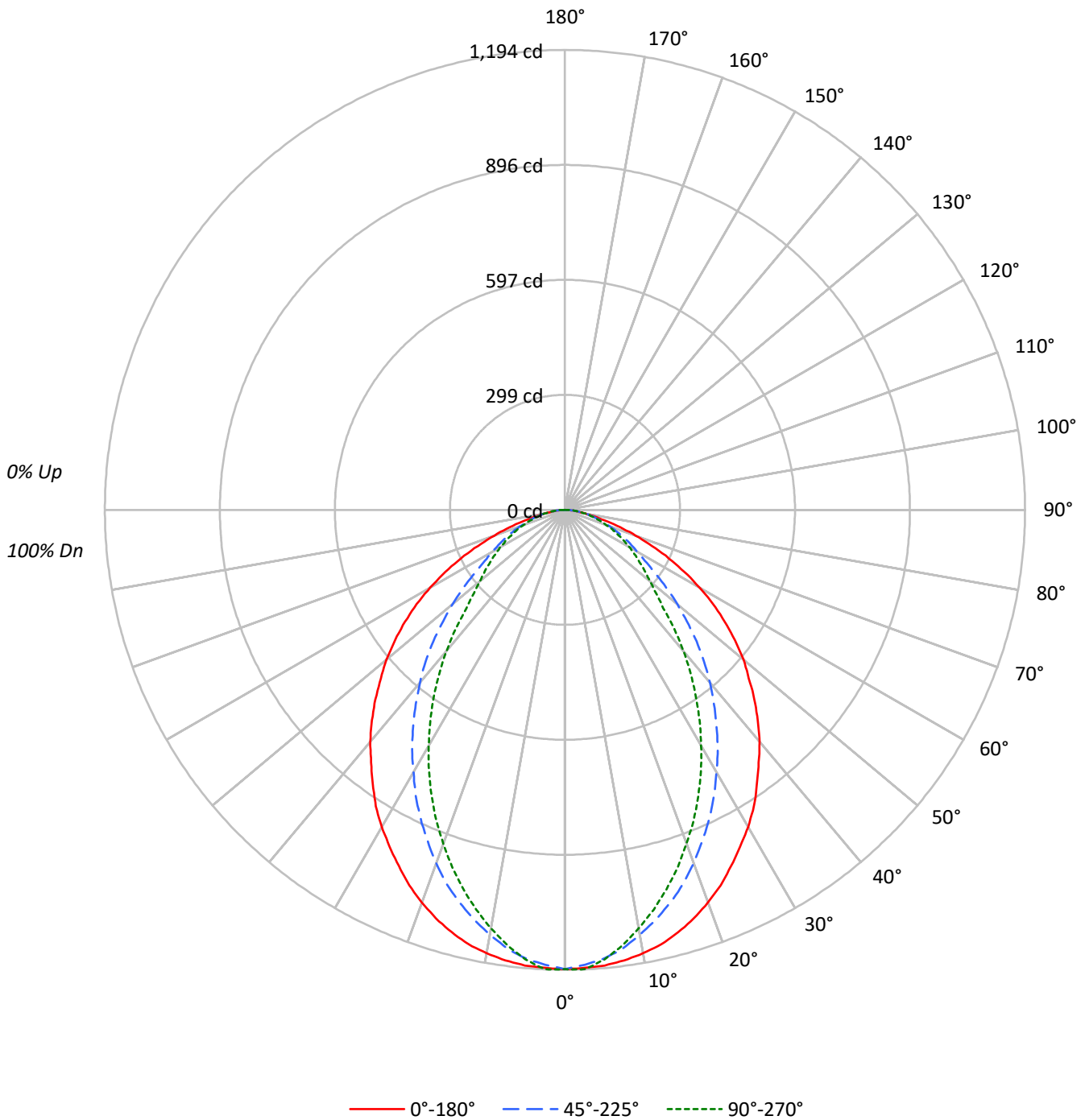
**Summary**

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 (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	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

(END OF REPORT)