

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: P1175363

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

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D940-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

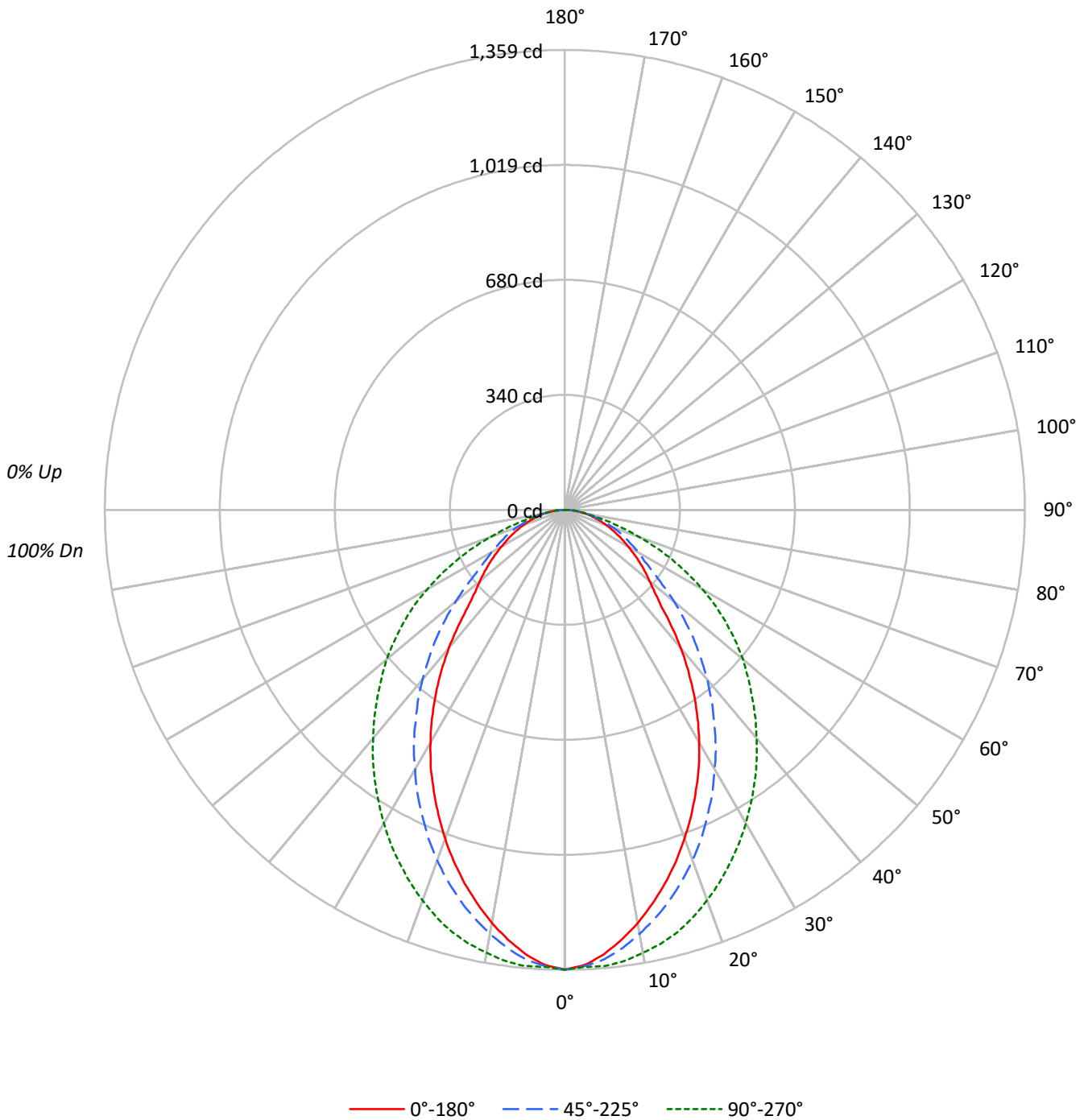
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2559.9 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°	45°	90°
0°	9356	9356	9356
5°	9113	9216	9352
10°	8669	8895	9290
15°	8148	8518	9201
20°	7573	8080	9001
25°	6958	7571	8763
30°	6309	7034	8501
35°	5584	6467	8222
40°	4790	5878	7921
45°	3931	5234	7615
50°	3496	4498	7351
55°	3227	3767	6979
60°	2970	3432	6465
65°	2763	3232	5714
70°	2577	3020	4668
75°	2423	2793	3498
80°	2288	2561	2514
85°	2093	2552	2093

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7615 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	4.9
10°-20°	339.1	13.2
20°-30°	466.5	18.2
30°-40°	494.8	19.3
40°-50°	433.0	16.9
50°-60°	332.3	13.0
60°-70°	221.3	8.6
70°-80°	113.5	4.4
80°-90°	33.7	1.3
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°	931.3	36.4
0°-40°	1426.1	55.7
0°-60°	2191.4	85.6
0°-90°	2559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1318	1336	1333	1343	1353	123
15°	1143	1170	1195	1252	1291	320
25°	916	947	997	1081	1154	421
35°	664	696	769	882	978	414
45°	404	437	538	671	782	319
55°	269	274	314	466	581	241
65°	170	171	198	261	351	169
75°	91	97	105	111	132	97
85°	26	30	32	31	26	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1358.8	1358.8	1358.8	1358.8	1358.8
2.5°	1346.1	1360.0	1349.6	1350.8	1351.9
5°	1318.5	1335.8	1333.4	1342.7	1353.1
7.5°	1281.5	1300.0	1305.8	1328.8	1345.0
10°	1240.0	1260.8	1272.3	1306.9	1328.8
12.5°	1192.7	1216.9	1235.4	1280.4	1312.7
15°	1143.1	1169.7	1195.0	1251.5	1290.8
17.5°	1090.1	1116.6	1150.0	1214.6	1261.9
20°	1033.5	1062.4	1102.7	1172.0	1228.5
22.5°	975.9	1005.9	1052.0	1128.1	1192.7
25°	915.9	947.0	996.6	1080.8	1153.5
27.5°	857.1	885.9	943.6	1033.5	1113.1
30°	793.6	823.6	884.7	983.9	1069.3
32.5°	730.2	760.2	830.5	934.3	1024.3
35°	664.4	695.6	769.4	882.4	978.2
37.5°	598.7	631.0	712.9	829.4	930.9
40°	532.9	567.5	654.0	776.3	881.3
42.5°	466.0	502.9	594.1	724.4	832.8
45°	403.7	437.2	537.5	671.3	782.1
47.5°	358.7	378.3	477.5	617.1	733.6
50°	326.4	335.7	419.9	565.2	686.3
52.5°	297.6	303.4	363.4	516.8	634.4
55°	268.8	274.5	313.8	466.0	581.4
57.5°	241.1	244.5	276.8	415.3	528.3
60°	215.7	218.0	249.2	364.5	469.5
62.5°	192.6	193.8	222.6	312.6	410.6
65°	169.6	170.7	198.4	260.7	350.7
67.5°	148.8	148.8	175.3	213.4	293.0
70°	128.0	128.0	150.0	173.0	231.9
72.5°	109.6	111.9	126.9	139.6	181.1
75°	91.1	96.9	105.0	110.7	131.5
77.5°	73.8	80.7	84.2	86.5	87.7
80°	57.7	62.3	64.6	65.7	63.4
82.5°	42.7	46.1	47.3	47.3	43.8
85°	26.5	30.0	32.3	31.1	26.5
87.5°	12.7	17.3	18.5	16.1	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)