

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: P1061519

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

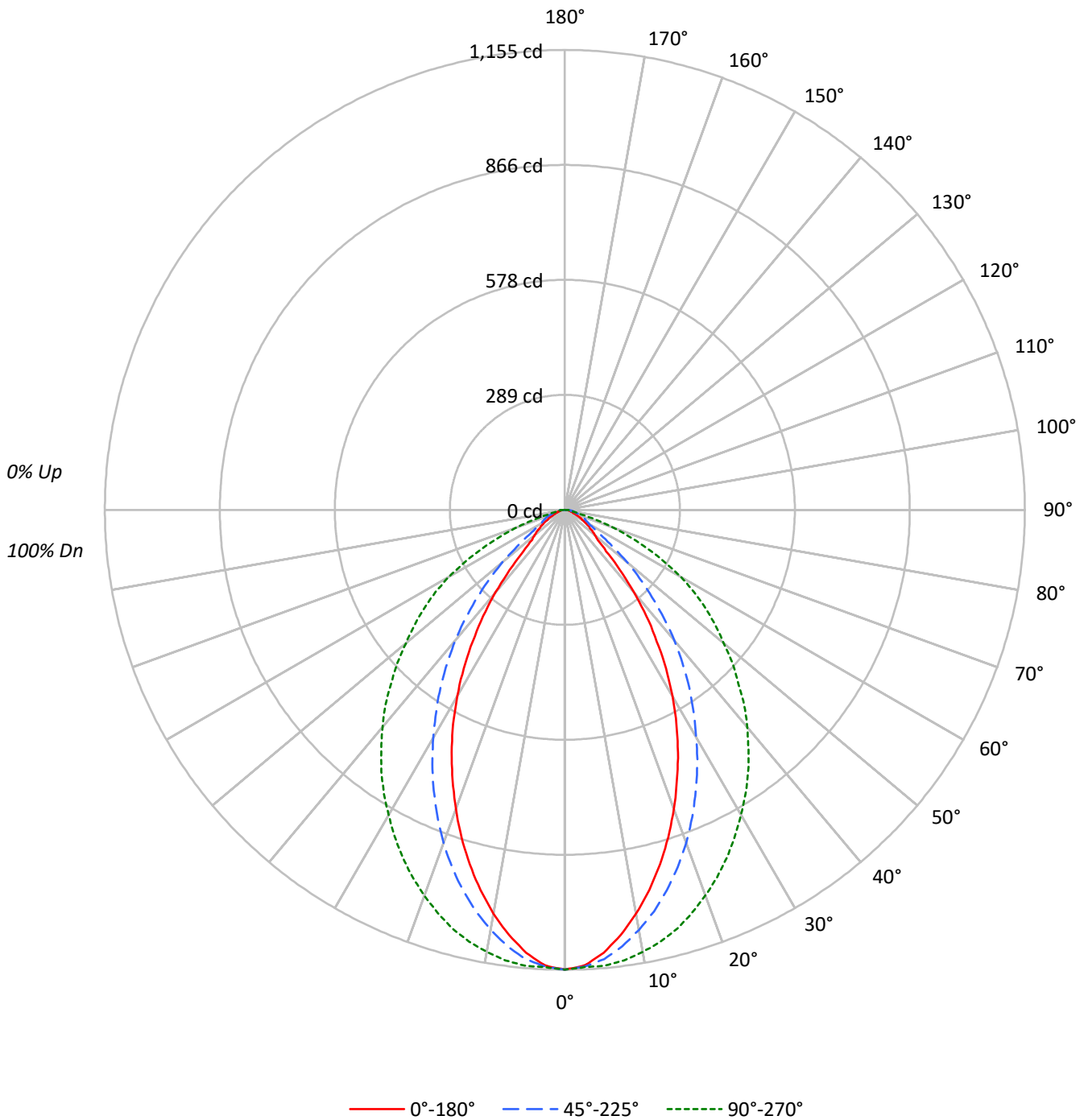
Test Method: LM-79-2019  
Report Number: P1061519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D830-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1667.3 lumens  
Efficiency: N/A  
Efficacy: 39.9 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79	
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70			70	
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			63	
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56			56	
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51			51	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46	
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36	

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

	0°	45°	90°
0°	7950	7950	7950
5°	7715	7829	7943
10°	7201	7489	7881
15°	6571	7049	7762
20°	5861	6523	7557
25°	5109	5910	7315
30°	4291	5249	7035
35°	3385	4571	6746
40°	2425	3841	6401
45°	1427	3015	6002
50°	1056	2171	5575
55°	888	1316	5180
60°	716	963	4621
65°	557	916	3705
70°	469	856	2508
75°	436	766	1093
80°	436	761	706
85°	537	972	758

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6002 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	6.4
10°-20°	279.5	16.8
20°-30°	365.3	21.9
30°-40°	355.5	21.3
40°-50°	265.7	15.9
50°-60°	164.8	9.9
60°-70°	86.6	5.2
70°-80°	31.6	1.9
80°-90°	11.9	0.7
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°	751.2	45.1
0°-40°	1106.7	66.4
0°-60°	1537.3	92.2
0°-90°	1667.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1116	1131	1133	1140	1149	104
15°	922	949	989	1049	1089	257
25°	672	707	778	884	963	307
35°	403	446	544	689	803	251
45°	147	192	310	484	616	123
55°	74	78	110	285	432	67
65°	34	37	56	120	227	36
75°	16	19	29	32	41	18
85°	7	12	12	12	10	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1145.1	1154.7	1147.8	1147.8	1149.2
5°	1116.3	1131.4	1132.7	1139.6	1149.2
7.5°	1076.6	1094.4	1105.4	1125.9	1141.0
10°	1030.0	1050.6	1071.1	1105.4	1127.3
12.5°	978.0	1002.6	1032.8	1079.3	1110.8
15°	921.8	949.2	988.9	1049.2	1088.9
17.5°	862.9	891.7	941.0	1013.6	1061.5
20°	799.9	831.4	890.3	972.5	1031.4
22.5°	735.5	771.1	835.5	928.7	998.5
25°	672.5	706.8	778.0	883.5	962.9
27.5°	606.8	642.4	720.5	836.9	924.5
30°	539.7	578.0	660.2	788.9	884.8
32.5°	472.5	512.3	601.3	739.6	845.1
35°	402.7	446.5	543.8	689.0	802.6
37.5°	336.9	383.5	484.9	636.9	757.4
40°	269.8	317.8	427.3	586.2	712.2
42.5°	204.1	253.4	368.5	534.2	667.0
45°	146.6	191.8	309.6	483.5	616.4
47.5°	112.3	138.3	254.8	431.5	571.2
50°	98.6	106.8	202.7	380.8	520.5
52.5°	86.3	91.8	150.7	331.5	476.7
55°	74.0	78.1	109.6	284.9	431.5
57.5°	63.0	67.1	83.6	242.4	384.9
60°	52.0	56.2	69.9	200.0	335.6
62.5°	43.8	45.2	63.0	160.3	280.8
65°	34.2	37.0	56.2	120.5	227.4
67.5°	28.8	30.1	49.3	86.3	175.3
70°	23.3	24.7	42.5	60.3	124.6
72.5°	20.5	20.5	35.6	43.8	79.4
75°	16.4	19.2	28.8	31.5	41.1
77.5°	13.7	19.2	24.7	23.3	21.9
80°	11.0	17.8	19.2	19.2	17.8
82.5°	9.6	15.1	16.4	15.1	13.7
85°	6.8	12.3	12.3	12.3	9.6
87.5°	5.5	11.0	9.6	9.6	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)