

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: P1061600

Luminaire Tested: S125RDR-S375D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

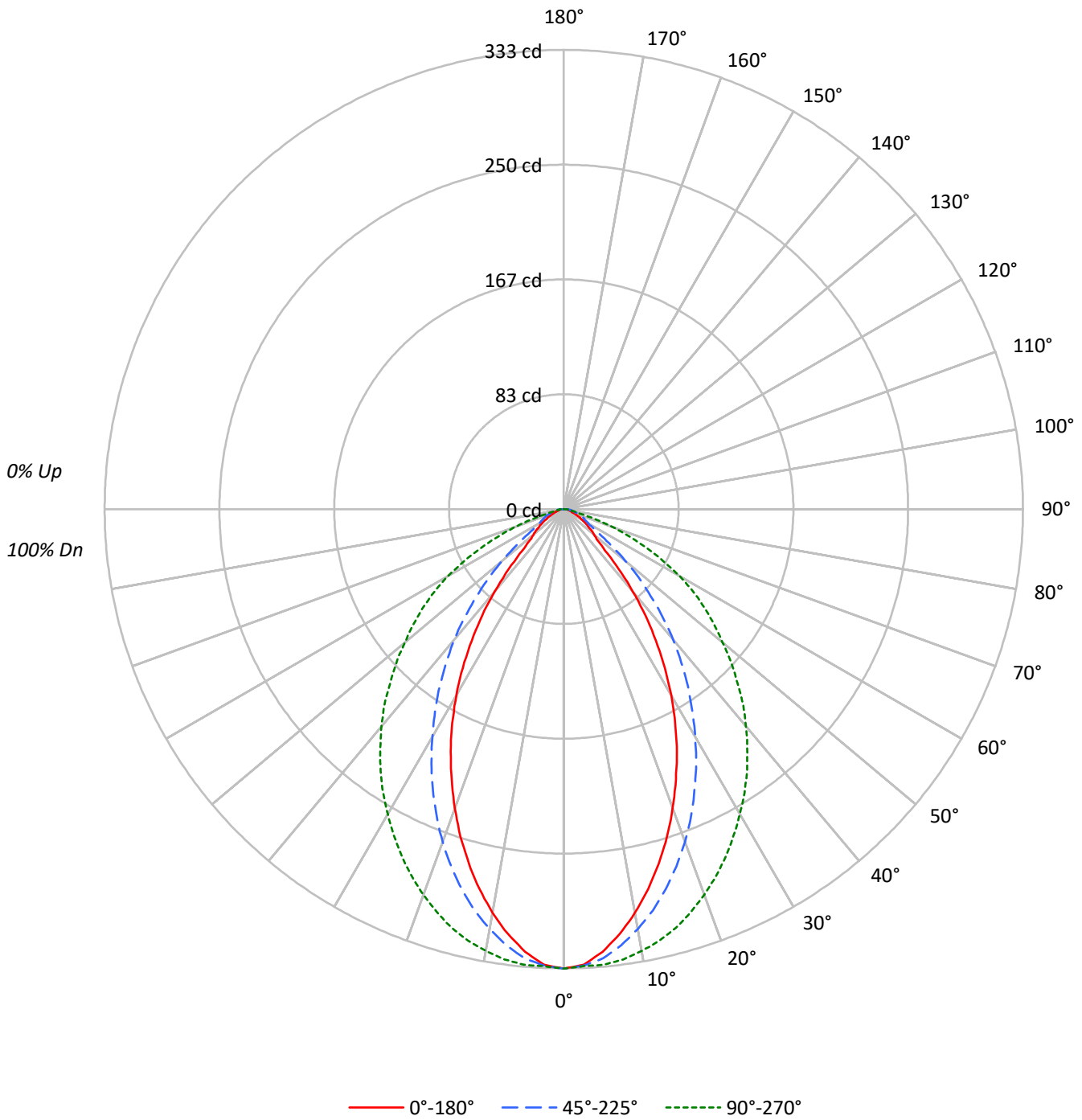
Test Method: LM-79-2019  
Report Number: P1061600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D830-X4F0-XX-UDD-SVL-S  
Description: 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: 481.1 lumens  
Efficiency: N/A  
Efficacy: 38.5 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): 12.5  
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°	2294	2294	2294
5°	2227	2259	2293
10°	2079	2161	2274
15°	1896	2034	2240
20°	1692	1882	2181
25°	1475	1706	2111
30°	1238	1515	2031
35°	977	1319	1947
40°	700	1108	1848
45°	412	870	1732
50°	305	627	1609
55°	256	379	1495
60°	207	278	1333
65°	161	264	1069
70°	135	248	725
75°	125	221	317
80°	127	218	202
85°	158	284	221

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1732 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.7	6.4
10°-20°	80.7	16.8
20°-30°	105.4	21.9
30°-40°	102.6	21.3
40°-50°	76.7	15.9
50°-60°	47.6	9.9
60°-70°	25.0	5.2
70°-80°	9.1	1.9
80°-90°	3.4	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°	216.8	45.1
0°-40°	319.4	66.4
0°-60°	443.6	92.2
0°-90°	481.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	481.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	333	333	333	333	333	
5°	322	326	327	329	332	30
15°	266	274	285	303	314	74
25°	194	204	224	255	278	89
35°	116	129	157	199	232	72
45°	42	55	89	140	178	36
55°	21	22	32	82	124	19
65°	10	11	16	35	66	10
75°	5	6	8	9	12	5
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	333.2	333.2	333.2	333.2	333.2
2.5°	330.5	333.2	331.3	331.3	331.7
5°	322.2	326.5	326.9	328.9	331.7
7.5°	310.7	315.8	319.0	324.9	329.3
10°	297.3	303.2	309.1	319.0	325.3
12.5°	282.2	289.4	298.1	311.5	320.6
15°	266.0	273.9	285.4	302.8	314.3
17.5°	249.0	257.3	271.6	292.5	306.4
20°	230.9	239.9	256.9	280.7	297.7
22.5°	212.3	222.6	241.1	268.0	288.2
25°	194.1	204.0	224.5	255.0	277.9
27.5°	175.1	185.4	207.9	241.5	266.8
30°	155.7	166.8	190.5	227.7	255.4
32.5°	136.4	147.8	173.5	213.5	243.9
35°	116.2	128.9	156.9	198.8	231.6
37.5°	97.2	110.7	139.9	183.8	218.6
40°	77.9	91.7	123.3	169.2	205.6
42.5°	58.9	73.1	106.3	154.2	192.5
45°	42.3	55.3	89.3	139.5	177.9
47.5°	32.4	39.9	73.5	124.5	164.8
50°	28.5	30.8	58.5	109.9	150.2
52.5°	24.9	26.5	43.5	95.7	137.6
55°	21.3	22.5	31.6	82.2	124.5
57.5°	18.2	19.4	24.1	70.0	111.1
60°	15.0	16.2	20.2	57.7	96.8
62.5°	12.6	13.0	18.2	46.3	81.0
65°	9.9	10.7	16.2	34.8	65.6
67.5°	8.3	8.7	14.2	24.9	50.6
70°	6.7	7.1	12.3	17.4	36.0
72.5°	5.9	5.9	10.3	12.6	22.9
75°	4.7	5.5	8.3	9.1	11.9
77.5°	4.0	5.5	7.1	6.7	6.3
80°	3.2	5.1	5.5	5.5	5.1
82.5°	2.8	4.3	4.7	4.3	4.0
85°	2.0	3.6	3.6	3.6	2.8
87.5°	1.6	3.2	2.8	2.8	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)