

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: P1061600

Luminaire Tested: S125RDRP-S375D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

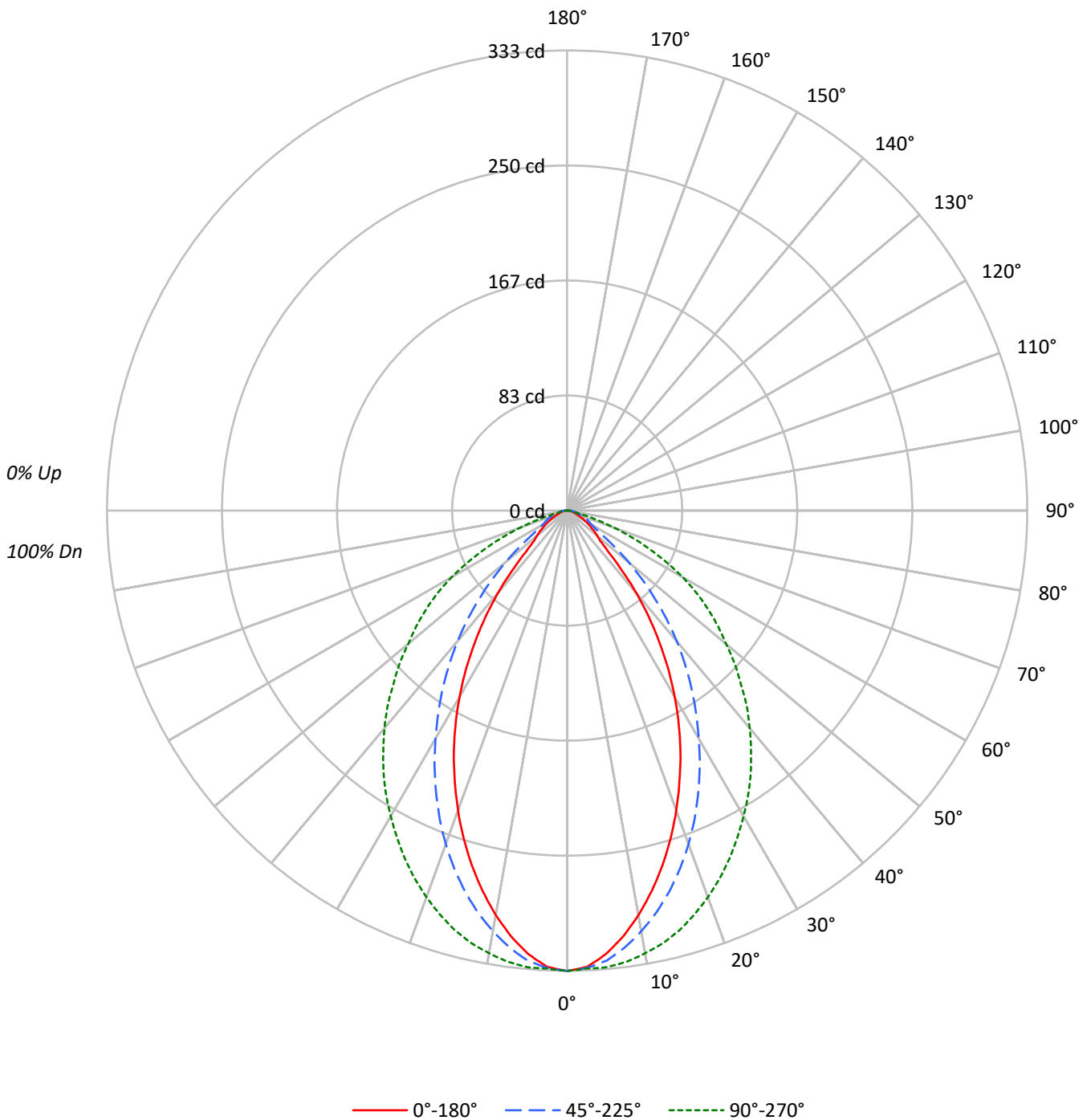
Lumens per Lamp: N/A
Luminaire Lumens: 481.1 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	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



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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	2.68	4.03	3.05	4.34	4.66	12.38	13.73	12.74	14.04	14.36
	3H	3.52	4.71	3.90	5.04	5.41	13.29	14.49	13.67	14.82	15.18
	4H	3.87	4.99	4.27	5.34	5.72	13.39	14.51	13.79	14.86	15.24
	6H	4.25	5.27	4.66	5.64	6.04	13.37	14.40	13.79	14.77	15.16
	8H	4.43	5.40	4.86	5.79	6.20	13.36	14.34	13.79	14.73	15.13
	12H	4.60	5.53	5.03	5.91	6.34	13.35	14.28	13.78	14.66	15.09
4H	2H	3.51	4.62	3.91	4.98	5.36	12.23	13.35	12.63	13.70	14.08
	3H	4.56	5.48	4.98	5.88	6.28	13.22	14.13	13.63	14.54	14.94
	4H	5.01	5.83	5.45	6.25	6.69	13.35	14.17	13.78	14.58	15.03
	6H	5.57	6.28	6.03	6.72	7.19	13.38	14.08	13.84	14.53	15.00
	8H	5.83	6.49	6.30	6.94	7.41	13.38	14.04	13.85	14.49	14.96
	12H	6.08	6.66	6.56	7.14	7.62	13.39	13.97	13.87	14.45	14.93
8H	4H	5.56	6.22	6.03	6.67	7.14	13.27	13.93	13.74	14.38	14.85
	6H	6.34	6.88	6.84	7.38	7.86	13.33	13.87	13.83	14.37	14.85
	8H	6.75	7.24	7.28	7.75	8.25	13.36	13.84	13.88	14.36	14.85
	12H	7.18	7.61	7.69	8.10	8.67	13.41	13.84	13.93	14.34	14.91
12H	4H	5.62	6.21	6.11	6.69	7.16	13.24	13.82	13.72	14.30	14.78
	6H	6.48	6.97	7.00	7.48	7.97	13.30	13.78	13.82	14.30	14.79
	8H	7.01	7.43	7.52	7.93	8.50	13.36	13.79	13.87	14.28	14.85