

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1062078

Luminaire Tested: S125RDR-H375D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

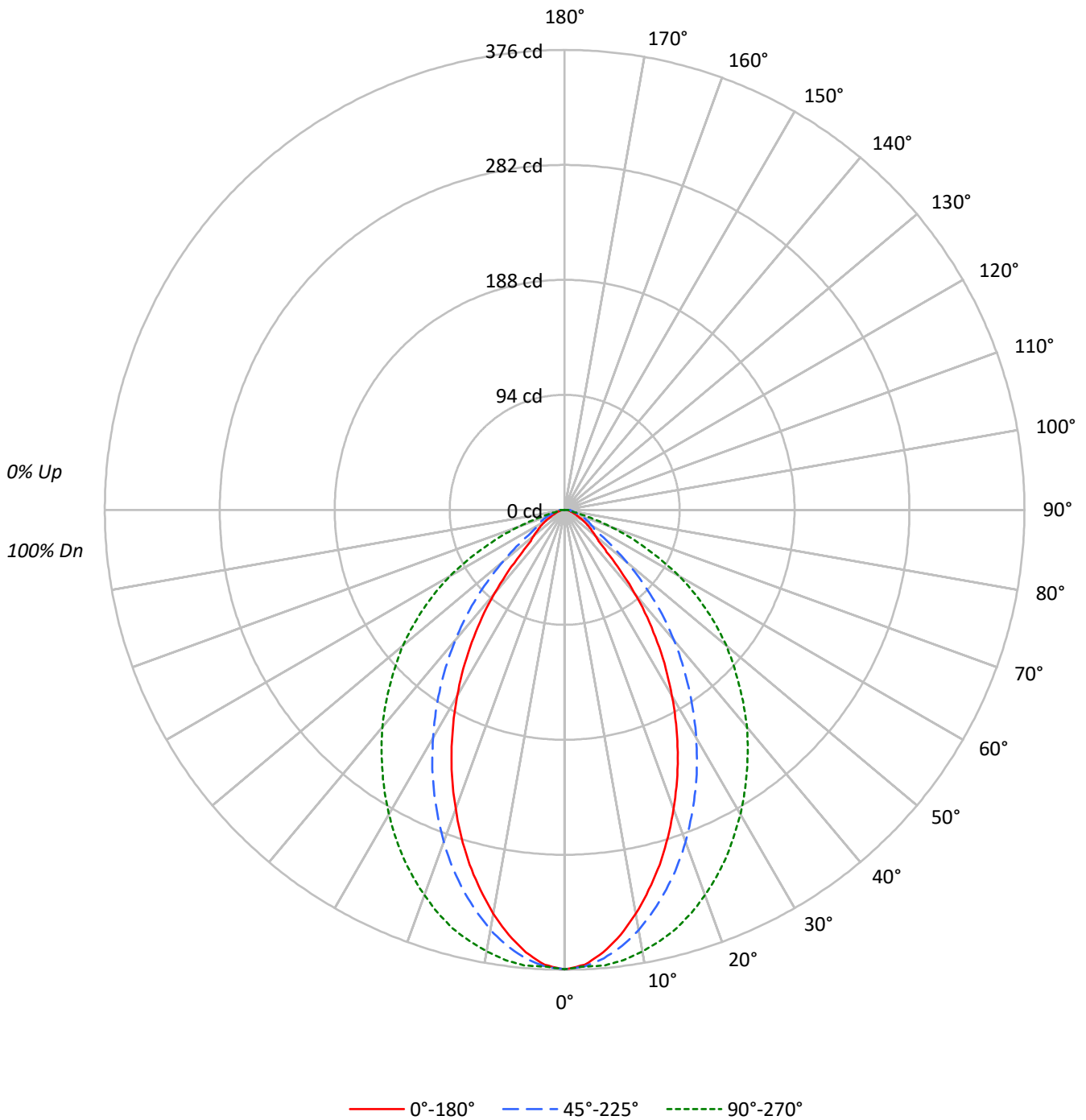
Lumens per Lamp: N/A
Luminaire Lumens: 544.1 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	78	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2586	2586	2586
5°	2511	2544	2585
10°	2344	2439	2562
15°	2140	2290	2524
20°	1907	2118	2457
25°	1662	1923	2378
30°	1396	1711	2285
35°	1110	1486	2185
40°	800	1248	2084
45°	474	991	1963
50°	350	706	1848
55°	296	436	1691
60°	242	351	1490
65°	189	326	1178
70°	161	282	787
75°	149	245	319
80°	159	254	222
85°	190	379	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	6.4
10°-20°	90.9	16.7
20°-30°	118.8	21.8
30°-40°	115.8	21.3
40°-50°	86.8	16.0
50°-60°	54.4	10.0
60°-70°	28.4	5.2
70°-80°	10.3	1.9
80°-90°	4.1	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°	244.4	44.9
0°-40°	360.2	66.2
0°-60°	501.4	92.2
0°-90°	544.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	363	368	368	371	374	34
15°	300	309	321	341	354	84
25°	219	231	253	287	313	100
35°	132	146	177	224	260	82
45°	49	63	102	157	202	41
55°	25	26	36	95	141	22
65°	12	12	20	38	72	12
75°	6	8	9	10	12	6
85°	2	4	5	4	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	375.6	375.6	375.6	375.6	375.6
2.5°	372.4	376.0	373.6	373.6	373.6
5°	363.3	368.1	368.1	370.8	374.0
7.5°	350.5	356.1	359.7	366.5	371.2
10°	335.3	342.1	348.9	360.1	366.5
12.5°	318.2	326.1	335.7	351.3	360.9
15°	300.2	309.0	321.3	341.3	354.1
17.5°	280.6	291.0	305.8	329.7	345.3
20°	260.3	270.7	289.0	316.2	335.3
22.5°	239.9	251.1	271.1	301.8	324.5
25°	218.8	230.7	253.1	287.4	313.0
27.5°	197.2	209.6	234.3	272.6	300.2
30°	175.6	188.4	215.2	256.7	287.4
32.5°	154.1	167.7	196.0	240.3	273.8
35°	132.1	146.1	176.8	223.9	259.9
37.5°	111.0	124.9	157.7	207.2	245.9
40°	89.0	104.2	138.9	190.4	231.9
42.5°	67.5	83.0	120.2	173.6	216.8
45°	48.7	63.1	101.8	157.3	201.6
47.5°	37.5	45.5	83.0	140.5	186.8
50°	32.7	35.1	65.9	124.9	172.5
52.5°	28.3	29.9	49.5	110.6	156.9
55°	24.7	25.9	36.3	95.0	140.9
57.5°	20.8	22.4	28.7	79.8	124.5
60°	17.6	18.4	25.5	65.9	108.2
62.5°	14.4	15.2	22.8	51.9	89.8
65°	11.6	12.4	20.0	38.3	72.3
67.5°	9.6	10.0	16.8	27.1	55.5
70°	8.0	8.4	14.0	18.8	39.1
72.5°	6.8	8.0	11.2	13.6	24.7
75°	5.6	7.6	9.2	9.6	12.0
77.5°	4.8	7.2	7.6	7.6	6.8
80°	4.0	6.0	6.4	6.0	5.6
82.5°	3.2	4.8	5.2	5.2	4.4
85°	2.4	4.0	4.8	4.4	3.2
87.5°	1.6	3.6	4.0	3.6	2.4
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	3.23	4.59	3.60	4.90	5.21	12.83	14.18	13.19	14.49	14.81
	3H	4.09	5.29	4.47	5.62	5.99	13.67	14.87	14.05	15.20	15.56
	4H	4.51	5.63	4.92	5.98	6.37	13.75	14.86	14.15	15.22	15.60
	6H	4.94	5.97	5.36	6.34	6.74	13.73	14.76	14.14	15.13	15.52
	8H	5.12	6.10	5.55	6.49	6.89	13.72	14.69	14.15	15.08	15.49
	12H	5.28	6.22	5.72	6.60	7.03	13.70	14.64	14.14	15.02	15.45
4H	2H	4.20	5.32	4.60	5.67	6.05	12.69	13.81	13.10	14.16	14.55
	3H	5.25	6.17	5.66	6.57	6.97	13.60	14.52	14.02	14.92	15.33
	4H	5.81	6.63	6.25	7.05	7.49	13.71	14.53	14.14	14.94	15.39
	6H	6.41	7.12	6.87	7.56	8.03	13.73	14.44	14.20	14.89	15.35
	8H	6.65	7.31	7.12	7.76	8.23	13.74	14.40	14.20	14.84	15.31
	12H	6.87	7.46	7.36	7.94	8.42	13.75	14.33	14.23	14.82	15.29
8H	4H	6.28	6.94	6.75	7.39	7.86	13.63	14.29	14.10	14.74	15.21
	6H	7.10	7.64	7.60	8.13	8.61	13.69	14.23	14.19	14.72	15.20
	8H	7.48	7.96	8.00	8.48	8.97	13.72	14.21	14.24	14.72	15.21
	12H	7.87	8.30	8.38	8.79	9.36	13.78	14.21	14.30	14.71	15.28
12H	4H	6.33	6.92	6.82	7.40	7.87	13.60	14.18	14.08	14.67	15.14
	6H	7.22	7.70	7.74	8.22	8.71	13.65	14.14	14.17	14.65	15.15
	8H	7.71	8.14	8.22	8.63	9.20	13.72	14.15	14.24	14.65	15.22