

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: P1062060

Luminaire Tested: S125RDR-H375D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062060
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-H375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

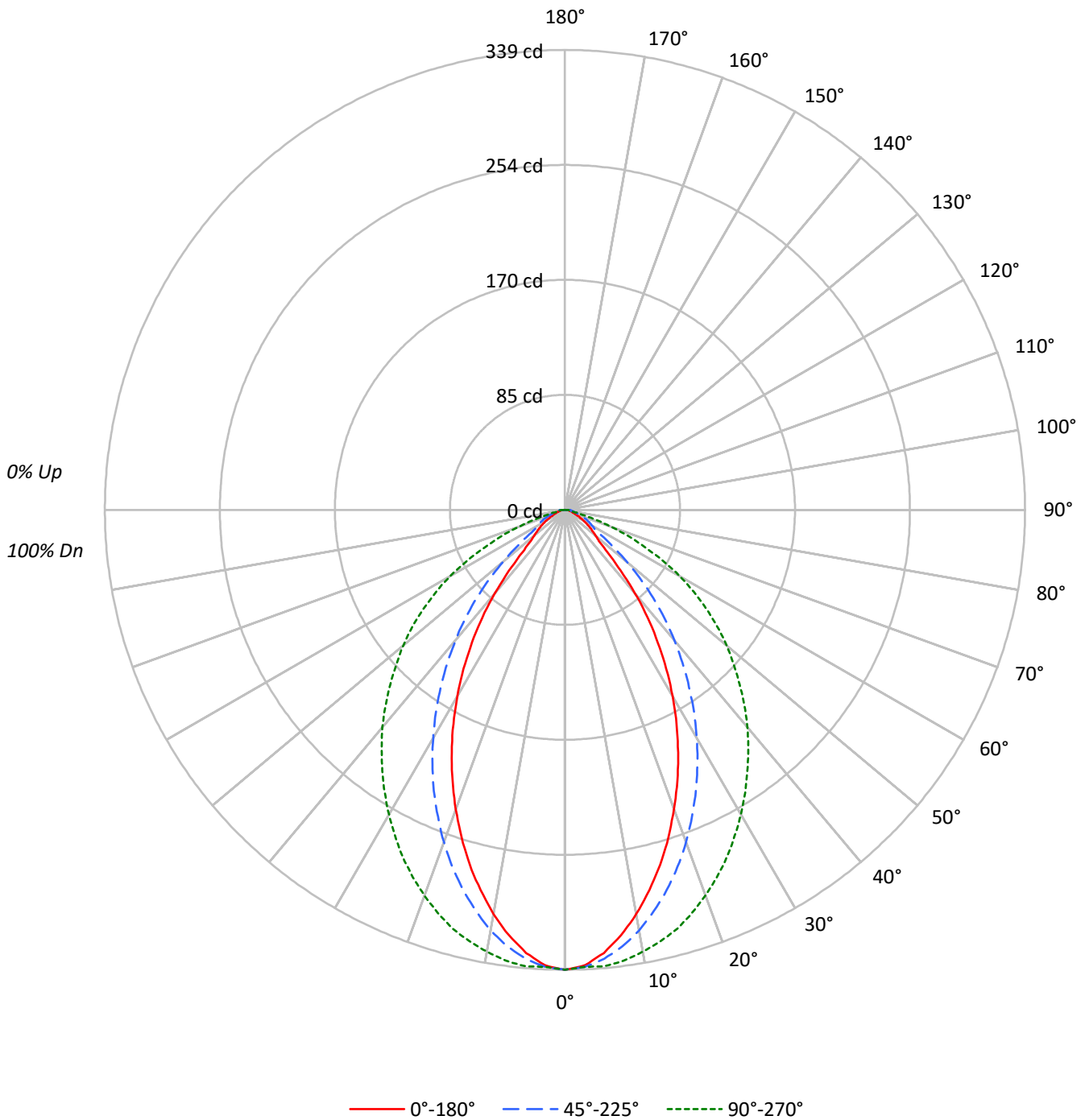
Lumens per Lamp: N/A
Luminaire Lumens: 491.0 lumens
Efficiency: N/A
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2334	2334	2334
5°	2266	2296	2333
10°	2116	2202	2312
15°	1931	2067	2278
20°	1721	1911	2217
25°	1500	1735	2146
30°	1260	1544	2062
35°	1003	1341	1971
40°	722	1127	1881
45°	428	895	1771
50°	316	636	1667
55°	268	394	1527
60°	219	318	1344
65°	169	293	1062
70°	145	254	711
75°	133	221	287
80°	143	230	198
85°	174	340	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1771 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	6.4
10°-20°	82.1	16.7
20°-30°	107.3	21.8
30°-40°	104.5	21.3
40°-50°	78.4	16.0
50°-60°	49.1	10.0
60°-70°	25.6	5.2
70°-80°	9.2	1.9
80°-90°	3.7	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°	220.6	44.9
0°-40°	325.1	66.2
0°-60°	452.6	92.2
0°-90°	491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	339	339	339	339	339	
5°	328	332	332	335	338	30
15°	271	279	290	308	320	76
25°	197	208	228	259	282	90
35°	119	132	160	202	234	74
45°	44	57	92	142	182	37
55°	22	23	33	86	127	20
65°	10	11	18	35	65	11
75°	5	7	8	9	11	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°	339.0	339.0	339.0	339.0	339.0
2.5°	336.1	339.4	337.2	337.2	337.2
5°	327.9	332.2	332.2	334.7	337.6
7.5°	316.3	321.4	324.6	330.7	335.1
10°	302.6	308.8	314.9	325.0	330.7
12.5°	287.1	294.3	303.0	317.0	325.7
15°	270.9	278.9	290.0	308.0	319.6
17.5°	253.3	262.6	276.0	297.6	311.6
20°	234.9	244.3	260.8	285.3	302.6
22.5°	216.5	226.6	244.6	272.4	292.9
25°	197.4	208.2	228.4	259.4	282.5
27.5°	178.0	189.1	211.5	246.1	270.9
30°	158.5	170.1	194.2	231.7	259.4
32.5°	139.1	151.3	176.9	216.9	247.1
35°	119.3	131.9	159.6	202.1	234.5
37.5°	100.2	112.8	142.3	187.0	221.9
40°	80.3	94.0	125.4	171.9	209.3
42.5°	60.9	74.9	108.4	156.7	195.6
45°	44.0	56.9	91.9	141.9	181.9
47.5°	33.9	41.1	74.9	126.8	168.6
50°	29.5	31.7	59.4	112.8	155.6
52.5°	25.6	27.0	44.7	99.8	141.6
55°	22.3	23.4	32.8	85.7	127.2
57.5°	18.7	20.2	25.9	72.1	112.4
60°	15.9	16.6	23.1	59.4	97.6
62.5°	13.0	13.7	20.5	46.8	81.1
65°	10.4	11.2	18.0	34.6	65.2
67.5°	8.6	9.0	15.1	24.5	50.1
70°	7.2	7.6	12.6	16.9	35.3
72.5°	6.1	7.2	10.1	12.2	22.3
75°	5.0	6.8	8.3	8.6	10.8
77.5°	4.3	6.5	6.8	6.8	6.1
80°	3.6	5.4	5.8	5.4	5.0
82.5°	2.9	4.3	4.7	4.7	4.0
85°	2.2	3.6	4.3	4.0	2.9
87.5°	1.4	3.2	3.6	3.2	2.2
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	2.87	4.22	3.23	4.53	4.85	12.48	13.83	12.84	14.14	14.46
	3H	3.72	4.92	4.10	5.25	5.62	13.32	14.52	13.70	14.85	15.21
	4H	4.14	5.26	4.54	5.61	5.99	13.39	14.51	13.80	14.86	15.25
	6H	4.57	5.60	4.98	5.97	6.36	13.37	14.40	13.79	14.77	15.17
	8H	4.75	5.72	5.18	6.11	6.52	13.36	14.34	13.79	14.73	15.13
	12H	4.91	5.85	5.35	6.23	6.66	13.35	14.28	13.78	14.67	15.10
4H	2H	3.83	4.95	4.23	5.30	5.68	12.34	13.46	12.74	13.81	14.19
	3H	4.88	5.80	5.29	6.20	6.60	13.25	14.17	13.66	14.57	14.97
	4H	5.43	6.25	5.87	6.67	7.12	13.35	14.17	13.79	14.59	15.03
	6H	6.04	6.74	6.50	7.19	7.65	13.38	14.09	13.84	14.53	15.00
	8H	6.27	6.93	6.74	7.38	7.85	13.38	14.04	13.85	14.49	14.96
	12H	6.50	7.09	6.99	7.57	8.05	13.39	13.98	13.88	14.46	14.93
8H	4H	5.91	6.57	6.37	7.01	7.48	13.28	13.94	13.74	14.38	14.85
	6H	6.72	7.26	7.22	7.76	8.24	13.33	13.87	13.83	14.37	14.85
	8H	7.10	7.59	7.62	8.10	8.59	13.36	13.85	13.88	14.36	14.86
	12H	7.50	7.92	8.01	8.42	8.99	13.43	13.86	13.94	14.35	14.92
12H	4H	5.96	6.54	6.44	7.02	7.50	13.24	13.83	13.73	14.31	14.78
	6H	6.84	7.33	7.36	7.84	8.34	13.30	13.78	13.82	14.30	14.79
	8H	7.33	7.76	7.85	8.26	8.83	13.37	13.80	13.88	14.29	14.86