

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: P1062076

Luminaire Tested: S125RDRP-H375D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H375D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK 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

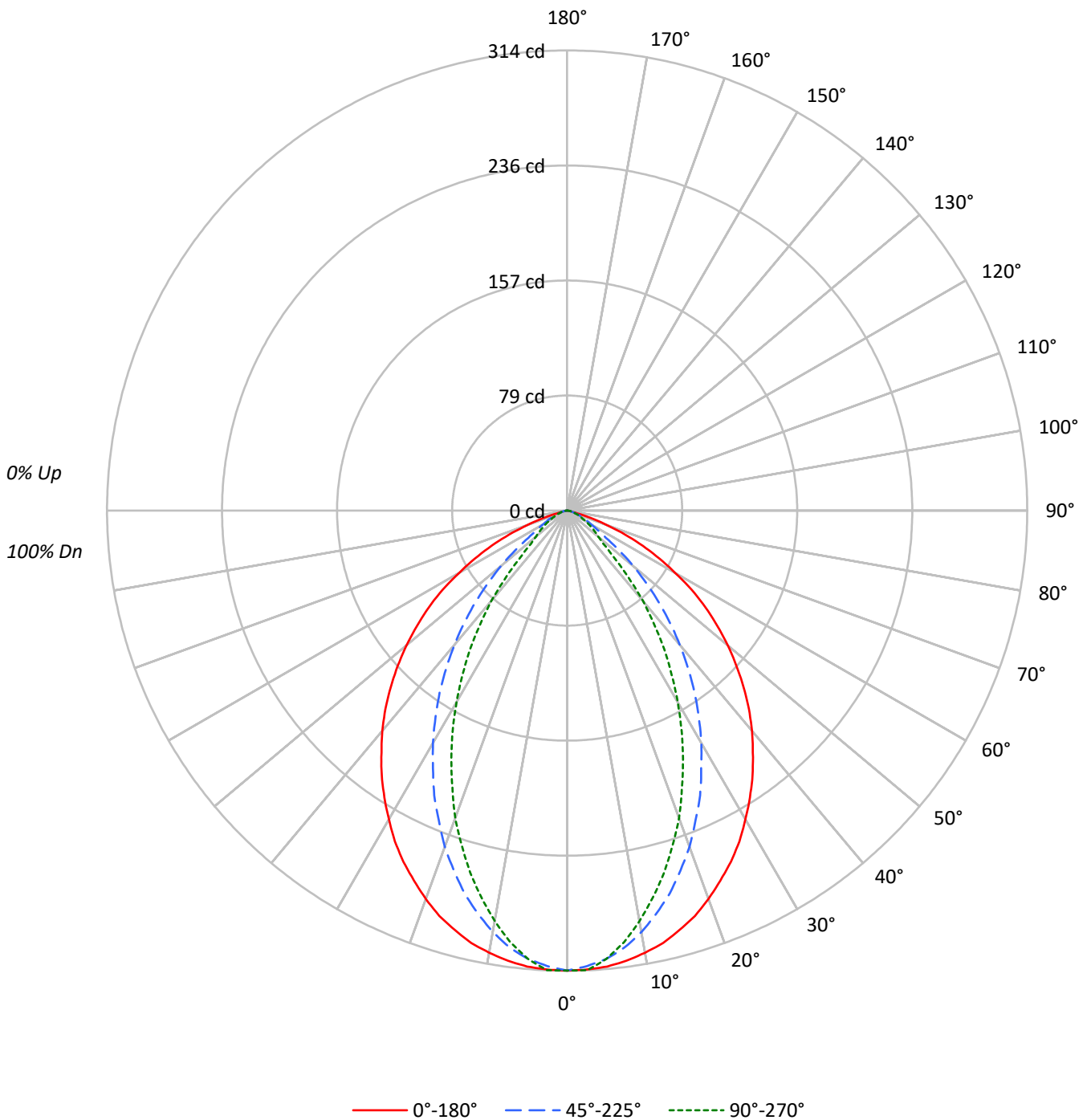
Lumens per Lamp: N/A
Luminaire Lumens: 454.0 lumens
Efficiency: N/A
Efficacy: 38.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2161	2161	2161
5°	2158	2123	2123
10°	2141	2042	1988
15°	2112	1927	1823
20°	2066	1789	1637
25°	2009	1630	1421
30°	1934	1456	1199
35°	1854	1274	972
40°	1763	1076	721
45°	1658	862	435
50°	1534	632	299
55°	1384	388	248
60°	1176	263	198
65°	929	202	156
70°	586	145	129
75°	192	106	106
80°	63	79	95
85°	32	63	63

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	6.4
10°-20°	76.7	16.9
20°-30°	100.8	22.2
30°-40°	99.1	21.8
40°-50°	75.0	16.5
50°-60°	45.4	10.0
60°-70°	21.5	4.7
70°-80°	5.6	1.2
80°-90°	0.8	0.2
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°	206.5	45.5
0°-40°	305.6	67.3
0°-60°	426.1	93.8
0°-90°	454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	314	314	314	314	314	
5°	312	312	307	308	307	30
15°	296	288	270	260	256	83
25°	264	244	215	195	187	122
35°	221	191	152	125	116	138
45°	170	134	88	56	45	131
55°	115	79	32	22	21	103
65°	57	29	12	10	10	56
75°	7	5	4	4	4	11
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	313.9	313.9	313.9	313.9	313.9
2.5°	313.5	313.5	311.1	313.9	313.9
5°	312.3	311.5	307.1	307.5	307.1
7.5°	309.9	308.3	300.7	298.7	297.1
10°	306.3	303.1	292.0	287.2	284.4
12.5°	302.3	296.7	281.6	274.8	270.4
15°	296.3	288.4	270.4	260.1	255.7
17.5°	290.0	278.4	257.3	244.9	239.3
20°	282.0	268.4	244.1	228.9	223.4
22.5°	273.2	257.3	228.9	212.2	204.6
25°	264.4	244.5	214.6	194.6	187.1
27.5°	254.5	231.7	198.2	177.5	169.1
30°	243.3	219.0	183.1	161.5	150.8
32.5°	232.1	205.8	167.1	143.6	132.8
35°	220.6	191.1	151.6	124.8	115.7
37.5°	208.2	177.1	135.6	107.7	96.9
40°	196.2	163.1	119.7	90.1	80.2
42.5°	183.5	149.2	103.7	73.0	61.8
45°	170.3	134.0	88.5	56.2	44.7
47.5°	156.7	120.5	73.4	41.5	33.5
50°	143.2	106.1	59.0	30.7	27.9
52.5°	129.2	92.1	44.7	25.5	24.3
55°	115.3	79.0	32.3	21.9	20.7
57.5°	100.9	64.6	24.3	18.7	17.5
60°	85.4	51.9	19.1	15.6	14.4
62.5°	71.0	40.7	15.6	12.8	12.0
65°	57.0	29.1	12.4	10.4	9.6
67.5°	42.7	19.5	9.6	8.0	8.0
70°	29.1	12.8	7.2	6.4	6.4
72.5°	17.5	7.6	5.2	5.2	5.2
75°	7.2	4.8	4.0	4.0	4.0
77.5°	2.4	2.8	2.8	3.2	3.2
80°	1.6	1.6	2.0	2.4	2.4
82.5°	0.8	1.2	1.2	1.6	1.6
85°	0.4	0.4	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.4	0.4
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	12.01	13.34	12.37	13.65	13.96	2.65	3.98	3.01	4.29	4.61
	3H	12.71	13.89	13.09	14.22	14.58	3.44	4.61	3.82	4.94	5.31
	4H	12.73	13.82	13.13	14.18	14.56	3.69	4.78	4.09	5.13	5.52
	6H	12.66	13.66	13.07	14.03	14.43	3.87	4.87	4.28	5.24	5.64
	8H	12.62	13.57	13.05	13.96	14.37	3.91	4.87	4.34	5.26	5.66
	12H	12.58	13.49	13.01	13.87	14.30	3.92	4.83	4.35	5.21	5.64
4H	2H	11.84	12.93	12.24	13.28	13.67	3.14	4.24	3.54	4.59	4.97
	3H	12.58	13.48	13.00	13.88	14.28	4.06	4.95	4.47	5.35	5.75
	4H	12.60	13.40	13.04	13.82	14.26	4.37	5.17	4.81	5.59	6.03
	6H	12.54	13.22	13.00	13.67	14.14	4.63	5.32	5.10	5.76	6.23
	8H	12.49	13.13	12.96	13.57	14.05	4.70	5.34	5.17	5.78	6.26
	12H	12.45	13.01	12.93	13.49	13.97	4.72	5.29	5.21	5.77	6.24
8H	4H	12.48	13.12	12.95	13.57	14.04	4.49	5.12	4.95	5.57	6.04
	6H	12.41	12.93	12.91	13.43	13.91	4.81	5.32	5.31	5.82	6.30
	8H	12.36	12.82	12.88	13.34	13.83	4.91	5.38	5.43	5.89	6.38
	12H	12.32	12.73	12.83	13.22	13.79	4.97	5.39	5.49	5.88	6.45
12H	4H	12.44	13.00	12.93	13.49	13.96	4.46	5.02	4.94	5.50	5.98
	6H	12.35	12.82	12.87	13.33	13.83	4.78	5.24	5.30	5.76	6.25
	8H	12.32	12.73	12.83	13.22	13.80	4.92	5.33	5.43	5.82	6.39