

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: P1061993

Luminaire Tested: S125RDRP-H1270D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

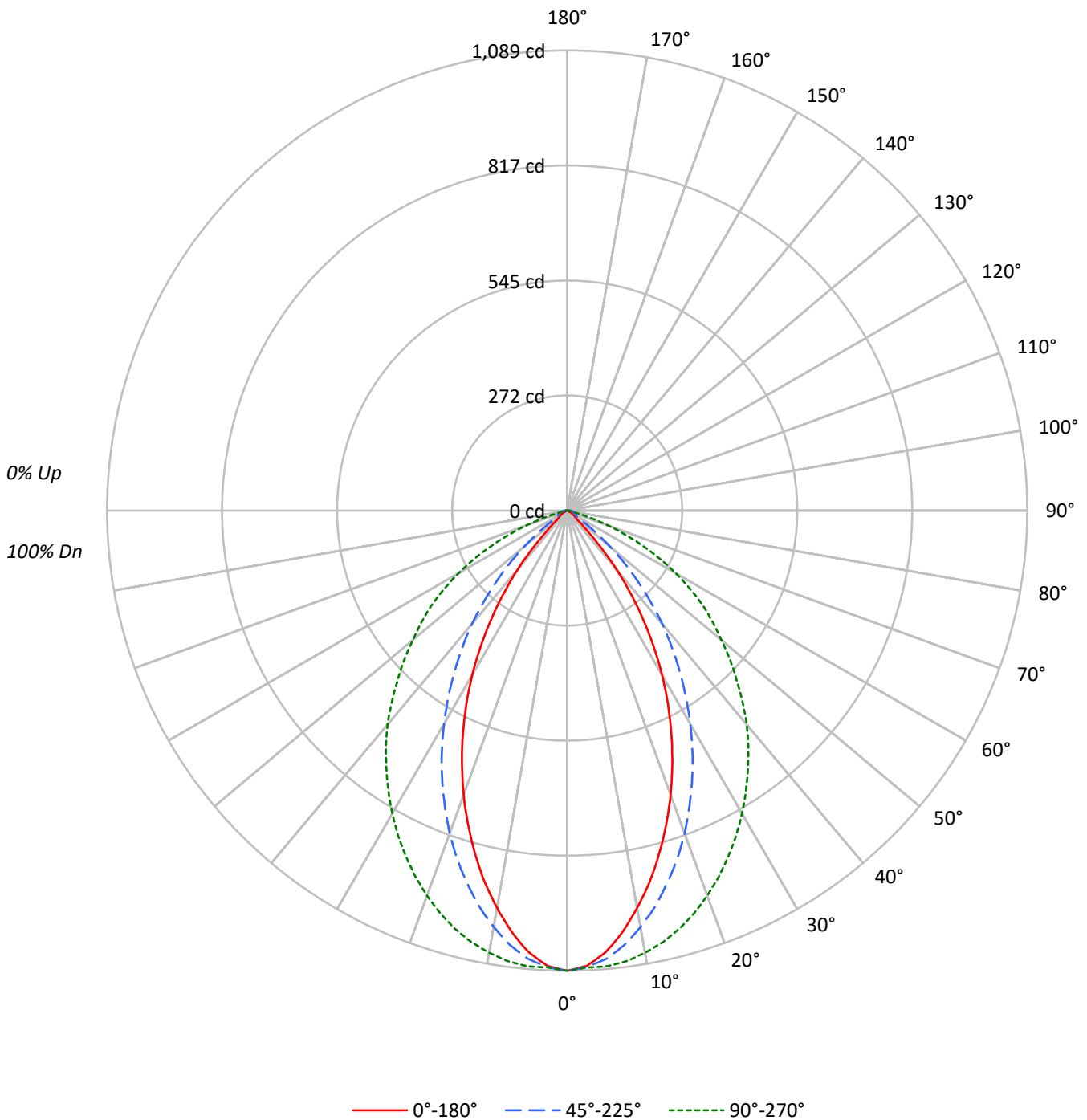
Lumens per Lamp: N/A
Luminaire Lumens: 1400.8 lumens
Efficiency: N/A
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49					49			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42					42			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7499	7499	7499
5°	7250	7361	7481
10°	6677	6996	7427
15°	5995	6511	7304
20°	5248	5955	7105
25°	4433	5319	6858
30°	3572	4628	6580
35°	2627	3901	6269
40°	1639	3147	5944
45°	613	2299	5525
50°	287	1436	5101
55°	209	595	4718
60°	147	314	4082
65°	88	371	3234
70°	81	433	2051
75°	106	428	641
80°	159	531	480
85°	316	845	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	7.1
10°-20°	258.5	18.5
20°-30°	329.4	23.5
30°-40°	306.6	21.9
40°-50°	210.0	15.0
50°-60°	115.7	8.3
60°-70°	54.8	3.9
70°-80°	17.2	1.2
80°-90°	8.8	0.6
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°	687.8	49.1
0°-40°	994.3	71.0
0°-60°	1320.1	94.2
0°-90°	1400.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1400.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1049	1062	1065	1073	1082	97
15°	841	868	913	982	1025	234
25°	584	620	700	813	903	266
35°	312	357	464	617	746	194
45°	63	106	236	418	567	60
55°	17	20	50	233	393	16
65°	5	7	23	86	198	6
75°	4	7	16	17	24	4
85°	4	9	11	9	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.1	1089.1	1089.1	1089.1	1089.1
2.5°	1078.4	1089.1	1081.1	1081.1	1082.4
5°	1048.9	1062.3	1065.0	1073.0	1082.4
7.5°	1006.0	1023.4	1036.8	1059.6	1075.7
10°	955.0	976.5	1000.6	1038.2	1062.3
12.5°	901.3	924.1	960.4	1012.7	1046.2
15°	841.0	867.8	913.4	981.8	1024.7
17.5°	779.3	808.8	865.1	945.6	999.3
20°	716.2	747.1	812.8	902.7	969.7
22.5°	650.5	684.1	756.5	858.4	937.6
25°	583.5	619.7	700.1	812.8	902.7
27.5°	516.4	553.9	642.5	765.9	866.5
30°	449.3	488.2	582.1	717.6	827.6
32.5°	380.9	423.8	523.1	669.3	787.3
35°	312.5	356.8	464.1	617.0	745.8
37.5°	245.5	291.1	406.4	567.4	704.2
40°	182.4	228.0	350.1	517.7	661.3
42.5°	118.0	166.3	291.1	466.8	614.3
45°	63.0	106.0	236.1	418.5	567.4
47.5°	33.5	56.3	183.8	370.2	523.1
50°	26.8	30.8	134.1	321.9	476.2
52.5°	21.5	24.1	85.8	272.3	434.6
55°	17.4	20.1	49.6	233.4	393.0
57.5°	13.4	16.1	28.2	194.5	344.7
60°	10.7	12.1	22.8	155.6	296.4
62.5°	6.7	9.4	22.8	120.7	248.1
65°	5.4	6.7	22.8	85.8	198.5
67.5°	5.4	5.4	22.8	56.3	148.9
70°	4.0	4.0	21.5	36.2	101.9
72.5°	4.0	4.0	18.8	24.1	59.0
75°	4.0	6.7	16.1	17.4	24.1
77.5°	4.0	10.7	14.8	14.8	13.4
80°	4.0	10.7	13.4	12.1	12.1
82.5°	4.0	10.7	10.7	10.7	9.4
85°	4.0	9.4	10.7	9.4	8.0
87.5°	4.0	9.4	9.4	9.4	5.4
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	0.00	0.00	0.00	0.00	0.00	16.05	17.33	16.41	17.64	17.96
	3H	0.00	0.00	0.00	0.00	0.00	16.83	17.97	17.21	18.30	18.66
	4H	0.00	0.00	0.00	0.00	0.30	16.86	17.92	17.26	18.27	18.65
	6H	0.00	0.70	0.14	1.07	1.46	16.81	17.79	17.23	18.16	18.55
	8H	0.40	1.32	0.83	1.71	2.11	16.79	17.71	17.22	18.10	18.51
	12H	1.14	2.02	1.57	2.40	2.83	16.77	17.65	17.20	18.03	18.46
4H	2H	0.00	0.88	0.23	1.24	1.62	15.83	16.89	16.23	17.24	17.62
	3H	0.70	1.56	1.11	1.97	2.37	16.66	17.52	17.07	17.92	18.33
	4H	1.29	2.06	1.73	2.48	2.93	16.69	17.46	17.13	17.88	18.32
	6H	2.78	3.45	3.25	3.89	4.36	16.68	17.34	17.14	17.79	18.26
	8H	3.52	4.14	3.99	4.59	5.06	16.66	17.28	17.13	17.73	18.20
	12H	4.26	4.81	4.75	5.29	5.76	16.66	17.21	17.15	17.69	18.17
8H	4H	3.34	3.96	3.81	4.40	4.88	16.58	17.20	17.05	17.64	18.11
	6H	5.08	5.58	5.58	6.08	6.56	16.58	17.08	17.08	17.58	18.06
	8H	6.02	6.48	6.55	6.99	7.49	16.58	17.04	17.11	17.55	18.05
	12H	6.96	7.36	7.47	7.85	8.43	16.63	17.03	17.15	17.53	18.10
12H	4H	3.64	4.19	4.13	4.67	5.14	16.53	17.08	17.02	17.56	18.04
	6H	5.53	5.99	6.06	6.50	7.00	16.53	16.99	17.06	17.50	18.00
	8H	6.66	7.06	7.18	7.56	8.13	16.57	16.97	17.09	17.47	18.04