

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: P1061588

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061588
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-S1270D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

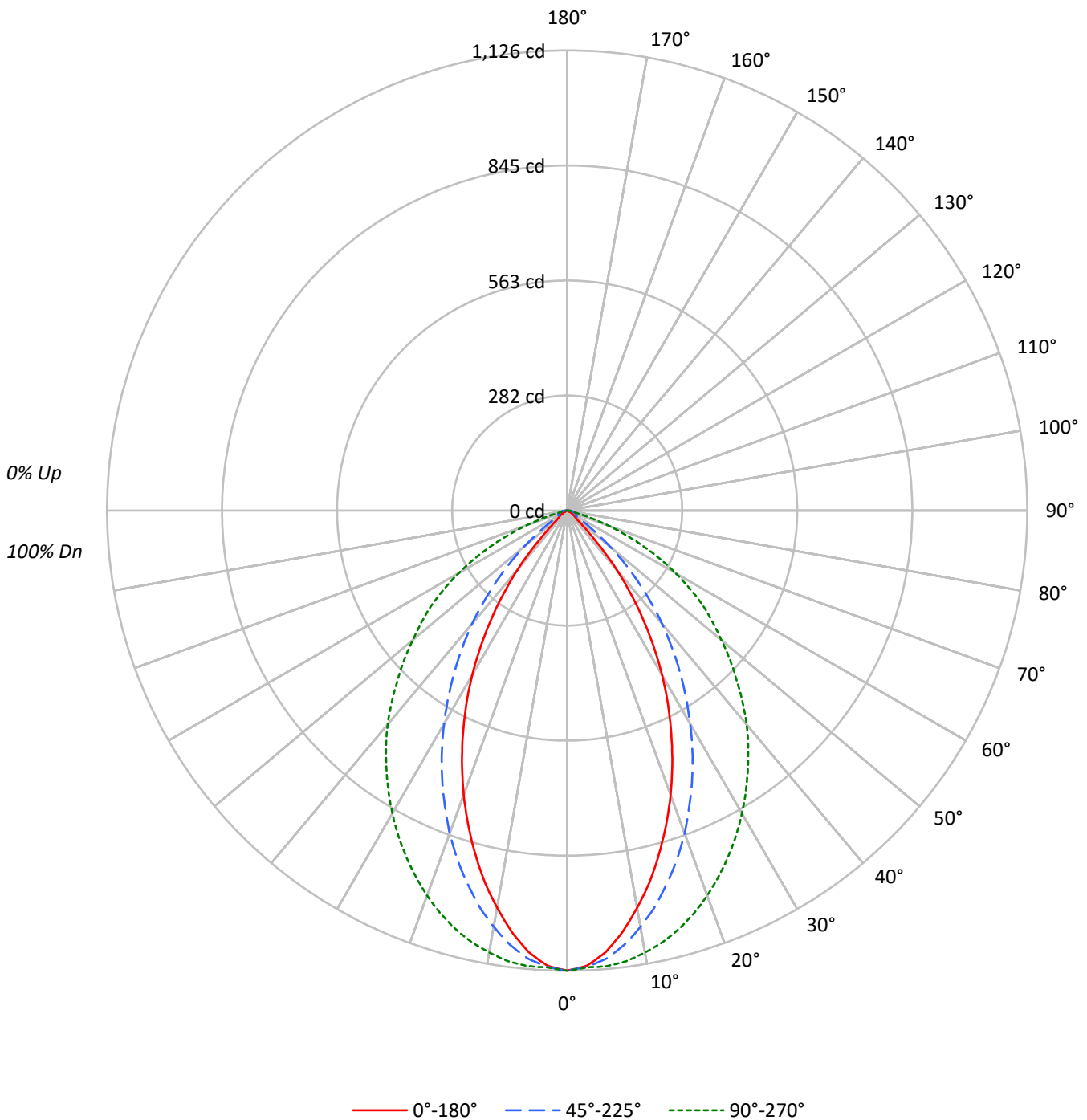
Lumens per Lamp: N/A
Luminaire Lumens: 1448.2 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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°	7752	7752	7752
5°	7494	7609	7734
10°	6902	7232	7678
15°	6197	6731	7551
20°	5425	6157	7345
25°	4583	5499	7090
30°	3693	4785	6802
35°	2716	4033	6480
40°	1695	3253	6144
45°	635	2376	5711
50°	297	1486	5272
55°	216	616	4877
60°	153	325	4219
65°	90	384	3343
70°	85	447	2122
75°	112	442	665
80°	167	551	496
85°	332	877	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	7.1
10°-20°	267.3	18.5
20°-30°	340.5	23.5
30°-40°	316.9	21.9
40°-50°	217.1	15.0
50°-60°	119.6	8.3
60°-70°	56.6	3.9
70°-80°	17.8	1.2
80°-90°	9.1	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°	711.0	49.1
0°-40°	1027.9	71.0
0°-60°	1364.6	94.2
0°-90°	1448.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1448.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1084	1098	1101	1109	1119	100
15°	869	897	944	1015	1059	242
25°	603	641	724	840	933	275
35°	323	369	480	638	771	200
45°	65	110	244	433	586	62
55°	18	21	51	241	406	16
65°	6	7	24	89	205	6
75°	4	7	17	18	25	4
85°	4	10	11	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.9	1125.9	1125.9	1125.9	1125.9
2.5°	1114.8	1125.9	1117.6	1117.6	1119.0
5°	1084.3	1098.2	1100.9	1109.3	1119.0
7.5°	1039.9	1058.0	1071.8	1095.4	1112.0
10°	987.2	1009.4	1034.4	1073.2	1098.2
12.5°	931.8	955.4	992.8	1046.9	1081.5
15°	869.4	897.1	944.3	1015.0	1059.3
17.5°	805.6	836.1	894.3	977.5	1033.0
20°	740.4	772.3	840.3	933.2	1002.5
22.5°	672.5	707.2	782.0	887.4	969.2
25°	603.2	640.6	723.8	840.3	933.2
27.5°	533.8	572.7	664.2	791.7	895.7
30°	464.5	504.7	601.8	741.8	855.5
32.5°	393.8	438.2	540.8	691.9	813.9
35°	323.1	368.8	479.8	637.8	770.9
37.5°	253.7	300.9	420.1	586.5	728.0
40°	188.6	235.7	361.9	535.2	683.6
42.5°	122.0	171.9	300.9	482.5	635.1
45°	65.2	109.5	244.0	432.6	586.5
47.5°	34.7	58.2	190.0	382.7	540.8
50°	27.7	31.9	138.7	332.8	492.2
52.5°	22.2	25.0	88.7	281.5	449.3
55°	18.0	20.8	51.3	241.3	406.3
57.5°	13.9	16.6	29.1	201.1	356.4
60°	11.1	12.5	23.6	160.8	306.4
62.5°	6.9	9.7	23.6	124.8	256.5
65°	5.5	6.9	23.6	88.7	205.2
67.5°	5.5	5.5	23.6	58.2	153.9
70°	4.2	4.2	22.2	37.4	105.4
72.5°	4.2	4.2	19.4	25.0	61.0
75°	4.2	6.9	16.6	18.0	25.0
77.5°	4.2	11.1	15.3	15.3	13.9
80°	4.2	11.1	13.9	12.5	12.5
82.5°	4.2	11.1	11.1	11.1	9.7
85°	4.2	9.7	11.1	9.7	8.3
87.5°	4.2	9.7	9.7	9.7	5.5
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	16.16	17.45	16.53	17.76	18.07
	3H	0.00	0.00	0.00	0.00	0.00	16.95	18.09	17.33	18.42	18.78
	4H	0.00	0.00	0.00	0.03	0.41	16.97	18.03	17.38	18.38	18.77
	6H	0.00	0.83	0.27	1.20	1.60	16.93	17.90	17.35	18.27	18.67
	8H	0.54	1.46	0.97	1.85	2.26	16.91	17.83	17.34	18.22	18.62
	12H	1.30	2.18	1.73	2.56	2.99	16.89	17.77	17.32	18.15	18.58
4H	2H	0.00	1.00	0.34	1.35	1.73	15.94	17.00	16.35	17.35	17.74
	3H	0.82	1.68	1.23	2.08	2.49	16.77	17.63	17.19	18.04	18.44
	4H	1.41	2.18	1.85	2.60	3.05	16.81	17.58	17.24	18.00	18.44
	6H	2.92	3.58	3.38	4.03	4.49	16.79	17.46	17.26	17.91	18.37
	8H	3.66	4.28	4.13	4.73	5.20	16.78	17.40	17.25	17.85	18.32
	12H	4.41	4.95	4.89	5.44	5.91	16.78	17.33	17.27	17.81	18.28
8H	4H	3.45	4.07	3.92	4.52	4.99	16.69	17.31	17.16	17.76	18.23
	6H	5.20	5.71	5.71	6.21	6.69	16.69	17.20	17.20	17.70	18.18
	8H	6.16	6.61	6.68	7.13	7.62	16.70	17.15	17.22	17.67	18.16
	12H	7.09	7.49	7.61	7.99	8.56	16.75	17.15	17.26	17.64	18.21
12H	4H	3.76	4.30	4.24	4.79	5.26	16.65	17.20	17.14	17.68	18.16
	6H	5.66	6.12	6.19	6.63	7.13	16.65	17.10	17.17	17.62	18.11
	8H	6.80	7.20	7.31	7.69	8.26	16.69	17.09	17.20	17.59	18.16