

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: P1061592

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061592
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: S125RDRP-S1270D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

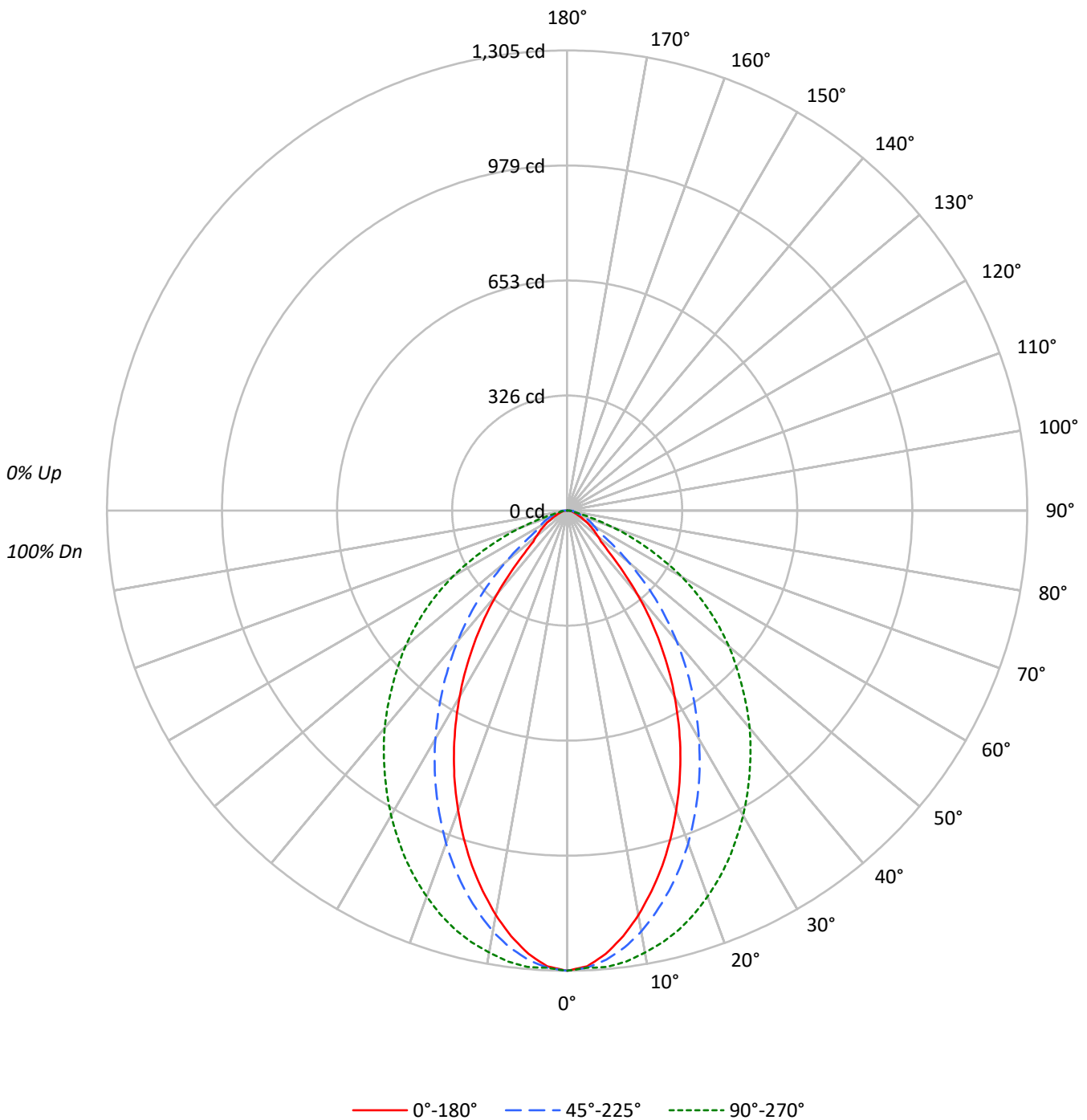
Lumens per Lamp: N/A
Luminaire Lumens: 1889.9 lumens
Efficiency: N/A
Efficacy: 45.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	82	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°	8984	8984	8984
5°	8721	8836	8979
10°	8143	8473	8899
15°	7432	7956	8767
20°	6624	7356	8534
25°	5772	6679	8259
30°	4851	5942	7937
35°	3858	5163	7587
40°	2779	4337	7241
45°	1648	3443	6818
50°	1218	2451	6416
55°	1032	1515	5876
60°	840	1221	5175
65°	655	1129	4089
70°	558	976	2736
75°	516	849	1107
80°	551	880	769
85°	656	1311	877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6818 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	6.4
10°-20°	315.8	16.7
20°-30°	412.8	21.8
30°-40°	402.1	21.3
40°-50°	301.6	16.0
50°-60°	189.1	10.0
60°-70°	98.4	5.2
70°-80°	35.6	1.9
80°-90°	14.1	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°	848.9	44.9
0°-40°	1251.0	66.2
0°-60°	1741.8	92.2
0°-90°	1889.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1262	1278	1278	1288	1299	117
15°	1043	1073	1116	1186	1230	291
25°	760	801	879	998	1087	347
35°	459	508	614	778	903	285
45°	169	219	354	546	700	142
55°	86	90	126	330	490	77
65°	40	43	69	133	251	41
75°	19	26	32	33	42	21
85°	8	14	17	15	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1293.7	1306.2	1297.8	1297.8	1297.8
5°	1261.8	1278.4	1278.4	1288.1	1299.2
7.5°	1217.4	1236.8	1249.3	1272.9	1289.5
10°	1164.7	1188.3	1211.9	1250.7	1272.9
12.5°	1105.1	1132.8	1166.1	1220.2	1253.5
15°	1042.7	1073.2	1116.2	1185.5	1229.9
17.5°	974.8	1010.8	1062.1	1145.3	1199.4
20°	904.1	940.1	1003.9	1098.2	1164.7
22.5°	833.3	872.2	941.5	1048.3	1127.3
25°	759.8	801.4	879.1	998.3	1087.1
27.5°	685.0	728.0	813.9	947.0	1042.7
30°	610.1	654.5	747.4	891.6	998.3
32.5°	535.2	582.4	680.8	834.7	951.2
35°	459.0	507.5	614.3	777.9	902.7
37.5°	385.5	434.0	547.7	719.6	854.1
40°	309.2	361.9	482.5	661.4	805.6
42.5°	234.3	288.4	417.4	603.2	752.9
45°	169.2	219.1	353.6	546.3	700.2
47.5°	130.3	158.1	288.4	488.1	648.9
50°	113.7	122.0	228.8	434.0	599.0
52.5°	98.4	104.0	171.9	384.1	544.9
55°	86.0	90.1	126.2	330.0	489.5
57.5°	72.1	77.6	99.8	277.3	432.6
60°	61.0	63.8	88.7	228.8	375.8
62.5°	49.9	52.7	79.0	180.3	312.0
65°	40.2	43.0	69.3	133.1	251.0
67.5°	33.3	34.7	58.2	94.3	192.7
70°	27.7	29.1	48.5	65.2	135.9
72.5°	23.6	27.7	38.8	47.1	86.0
75°	19.4	26.3	31.9	33.3	41.6
77.5°	16.6	25.0	26.3	26.3	23.6
80°	13.9	20.8	22.2	20.8	19.4
82.5°	11.1	16.6	18.0	18.0	15.3
85°	8.3	13.9	16.6	15.3	11.1
87.5°	5.5	12.5	13.9	12.5	8.3
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	7.54	8.89	7.91	9.21	9.52	17.16	18.51	17.52	18.82	19.14
	3H	8.40	9.60	8.78	9.93	10.30	18.00	19.20	18.38	19.53	19.89
	4H	8.82	9.94	9.23	10.29	10.68	18.07	19.19	18.48	19.54	19.93
	6H	9.25	10.28	9.67	10.65	11.05	18.06	19.08	18.47	19.45	19.85
	8H	9.43	10.41	9.86	10.80	11.20	18.04	19.02	18.47	19.41	19.81
	12H	9.59	10.53	10.03	10.91	11.34	18.03	18.96	18.46	19.35	19.78
4H	2H	8.50	9.62	8.91	9.97	10.36	17.02	18.14	17.42	18.49	18.87
	3H	9.56	10.47	9.97	10.88	11.28	17.93	18.85	18.34	19.25	19.65
	4H	10.12	10.94	10.55	11.36	11.80	18.03	18.85	18.47	19.27	19.71
	6H	10.72	11.43	11.18	11.87	12.34	18.06	18.77	18.52	19.21	19.68
	8H	10.96	11.62	11.43	12.07	12.54	18.06	18.72	18.53	19.17	19.64
	12H	11.19	11.77	11.67	12.25	12.73	18.07	18.66	18.56	19.14	19.62
8H	4H	10.59	11.25	11.06	11.70	12.17	17.96	18.62	18.43	19.07	19.54
	6H	11.41	11.95	11.91	12.44	12.92	18.01	18.55	18.51	19.05	19.53
	8H	11.79	12.27	12.31	12.79	13.28	18.05	18.53	18.57	19.05	19.54
	12H	12.18	12.61	12.69	13.10	13.67	18.11	18.54	18.62	19.03	19.60
12H	4H	10.64	11.23	11.13	11.71	12.18	17.92	18.51	18.41	18.99	19.47
	6H	11.53	12.01	12.05	12.53	13.02	17.98	18.47	18.50	18.98	19.47
	8H	12.02	12.45	12.53	12.94	13.51	18.05	18.48	18.56	18.97	19.54