

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: P1061549

Luminaire Tested: S125RDRP-S1270D850-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D850-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

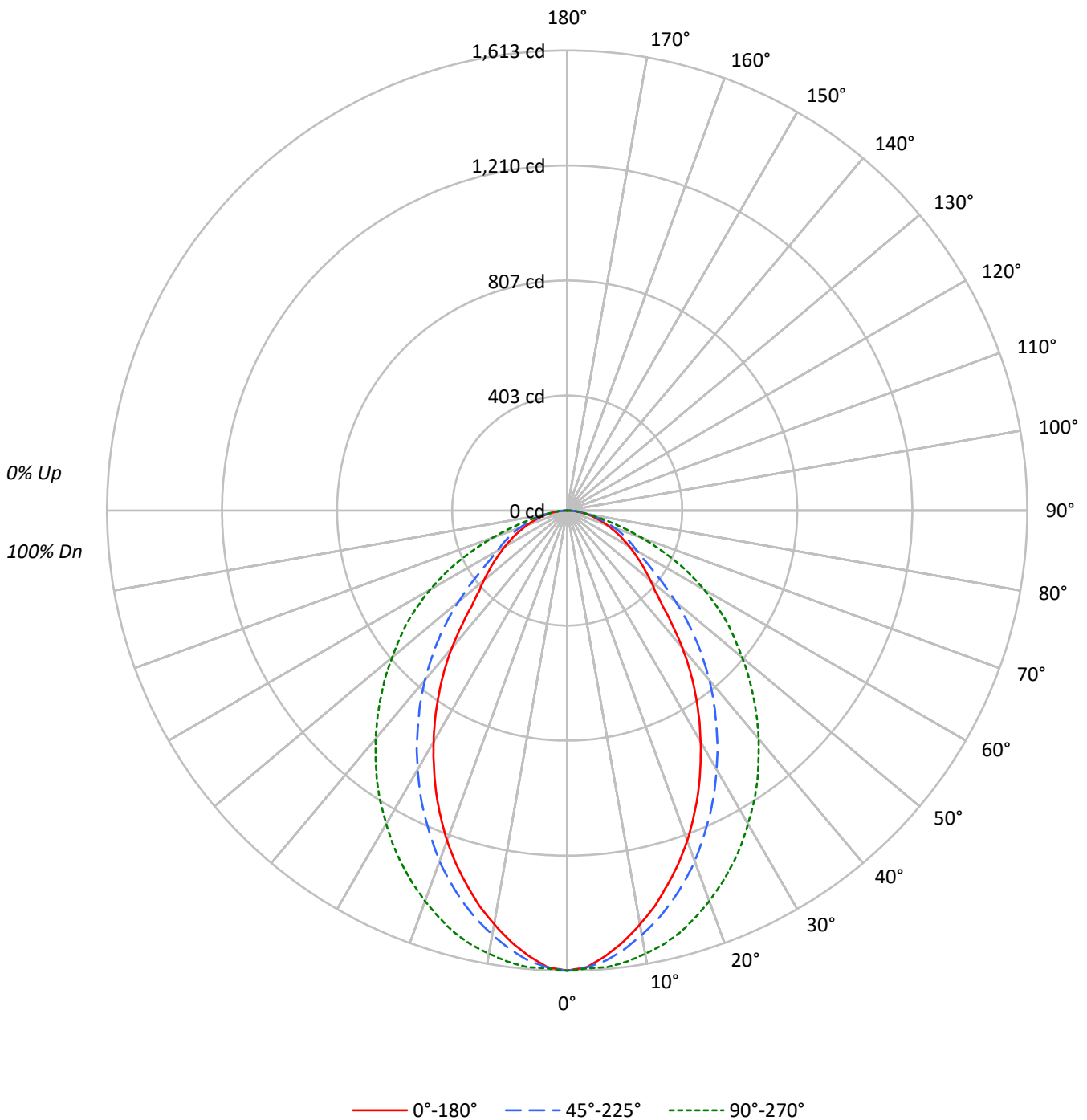
Lumens per Lamp: N/A
Luminaire Lumens: 3023.5 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88					86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76					74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58					56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46					44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38					36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11105	11105	11105
5°	10824	10935	11103
10°	10296	10555	11028
15°	9682	10107	10911
20°	9020	9586	10672
25°	8263	8972	10404
30°	7442	8326	10081
35°	6582	7651	9764
40°	5648	6966	9384
45°	4613	6197	8989
50°	4091	5316	8578
55°	3752	4410	8220
60°	3461	3905	7655
65°	3229	3754	6825
70°	3016	3567	5578
75°	2785	3344	4115
80°	2621	3128	3002
85°	2417	3057	2544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8989 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	4.9
10°-20°	402.0	13.3
20°-30°	552.5	18.3
30°-40°	585.6	19.4
40°-50°	511.2	16.9
50°-60°	388.3	12.8
60°-70°	260.2	8.6
70°-80°	134.1	4.4
80°-90°	40.2	1.3
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°	1103.8	36.5
0°-40°	1689.4	55.9
0°-60°	2588.9	85.6
0°-90°	3023.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1566	1582	1582	1594	1606	147
15°	1358	1384	1418	1481	1531	381
25°	1088	1121	1181	1279	1370	499
35°	783	828	910	1039	1162	488
45°	474	520	636	788	923	374
55°	313	322	367	540	685	280
65°	198	203	230	308	419	197
75°	105	111	126	134	155	112
85°	31	39	39	35	32	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1601.5	1612.8	1603.2	1603.2	1606.4
5°	1566.1	1582.2	1582.2	1593.5	1606.4
7.5°	1522.6	1540.3	1550.0	1575.8	1595.1
10°	1472.7	1492.0	1509.7	1548.4	1577.4
12.5°	1419.5	1440.4	1467.8	1517.8	1558.0
15°	1358.3	1384.0	1417.9	1480.7	1530.7
17.5°	1297.0	1322.8	1364.7	1438.8	1495.2
20°	1231.0	1258.4	1308.3	1388.9	1456.5
22.5°	1160.1	1190.7	1243.9	1335.7	1414.6
25°	1087.6	1121.4	1181.0	1279.3	1369.5
27.5°	1011.8	1052.1	1116.6	1221.3	1321.2
30°	936.1	976.4	1047.3	1161.7	1268.0
32.5°	860.4	903.9	981.2	1102.1	1216.5
35°	783.1	828.2	910.3	1039.2	1161.7
37.5°	707.3	752.4	844.3	978.0	1102.1
40°	628.4	675.1	775.0	915.2	1044.1
42.5°	547.8	597.8	705.7	850.7	984.5
45°	473.7	520.4	636.4	787.9	923.2
47.5°	418.9	449.5	567.1	723.4	863.6
50°	381.9	398.0	496.3	660.6	800.8
52.5°	344.8	357.7	430.2	596.2	741.2
55°	312.6	322.2	367.4	539.8	684.8
57.5°	280.4	290.0	319.0	483.4	618.7
60°	251.3	259.4	283.6	423.7	555.9
62.5°	224.0	230.4	256.2	367.4	488.2
65°	198.2	203.0	230.4	307.7	418.9
67.5°	172.4	177.2	204.6	251.3	344.8
70°	149.8	151.5	177.2	204.6	277.1
72.5°	127.3	128.9	149.8	166.0	212.7
75°	104.7	111.2	125.7	133.7	154.7
77.5°	85.4	93.5	101.5	104.7	104.7
80°	66.1	75.7	78.9	78.9	75.7
82.5°	48.3	56.4	58.0	54.8	51.6
85°	30.6	38.7	38.7	35.4	32.2
87.5°	14.5	20.9	20.9	19.3	14.5
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	14.97	16.47	15.34	16.78	17.10	18.90	20.40	19.26	20.71	21.02
	3H	16.54	17.88	16.92	18.21	18.57	20.32	21.66	20.70	21.99	22.35
	4H	17.16	18.41	17.56	18.76	19.14	20.74	21.99	21.14	22.34	22.72
	6H	17.65	18.81	18.06	19.18	19.57	20.95	22.11	21.36	22.48	22.87
	8H	17.82	18.93	18.25	19.32	19.72	21.01	22.12	21.44	22.51	22.91
	12H	17.95	19.01	18.38	19.39	19.82	21.04	22.10	21.48	22.49	22.92
4H	2H	15.71	16.97	16.11	17.32	17.69	19.02	20.28	19.43	20.63	21.01
	3H	17.49	18.53	17.90	18.93	19.33	20.63	21.68	21.04	22.08	22.48
	4H	18.22	19.16	18.66	19.58	20.02	21.16	22.10	21.59	22.52	22.96
	6H	18.86	19.68	19.32	20.12	20.58	21.50	22.32	21.96	22.76	23.22
	8H	19.09	19.85	19.55	20.30	20.76	21.60	22.37	22.07	22.81	23.28
	12H	19.26	19.94	19.74	20.42	20.89	21.68	22.36	22.16	22.84	23.31
8H	4H	18.62	19.39	19.09	19.83	20.30	21.27	22.03	21.73	22.48	22.94
	6H	19.41	20.04	19.91	20.53	21.01	21.71	22.34	22.20	22.83	23.31
	8H	19.73	20.30	20.25	20.81	21.30	21.86	22.43	22.38	22.94	23.43
	12H	20.01	20.51	20.52	21.00	21.57	22.00	22.50	22.51	22.99	23.56
12H	4H	18.67	19.35	19.15	19.83	20.30	21.27	21.95	21.75	22.43	22.90
	6H	19.49	20.06	20.01	20.57	21.06	21.72	22.29	22.24	22.80	23.29
	8H	19.89	20.39	20.40	20.88	21.45	21.93	22.43	22.44	22.92	23.49