

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: P1061547

Luminaire Tested: S125RDRP-S1270D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061547
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-S1270D850-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, 80 CRI LEDS
Ballast/Driver: -

Summary

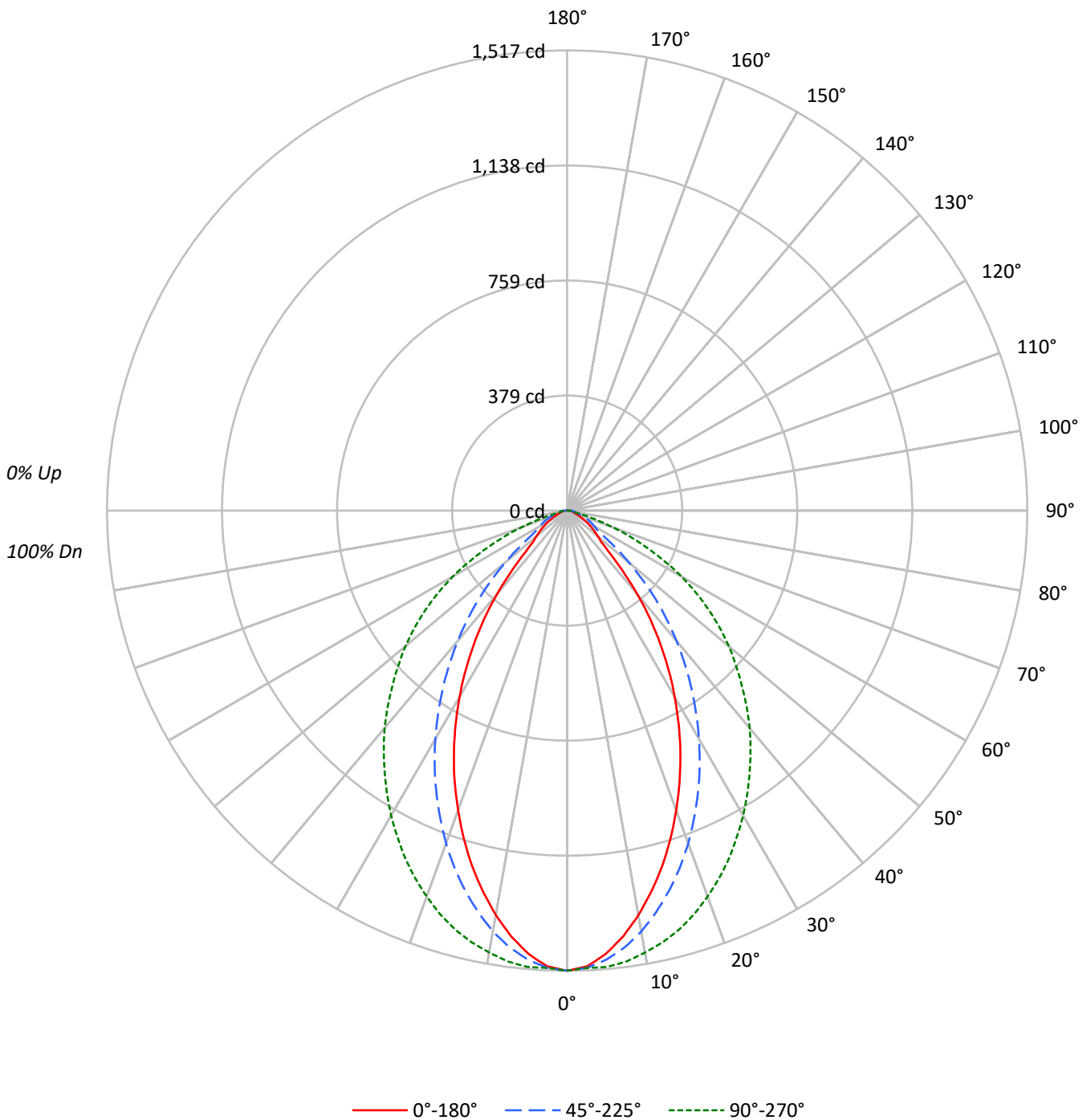
Lumens per Lamp: N/A
Luminaire Lumens: 2197.0 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10444	10444	10444
5°	10138	10271	10438
10°	9466	9850	10345
15°	8640	9249	10191
20°	7700	8551	9921
25°	6710	7763	9600
30°	5638	6907	9226
35°	4484	6002	8820
40°	3230	5041	8417
45°	1914	4002	7926
50°	1416	2849	7458
55°	1199	1761	6830
60°	976	1421	6015
65°	761	1313	4752
70°	648	1135	3181
75°	601	987	1288
80°	638	1023	896
85°	766	1525	1019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7926 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	6.4
10°-20°	367.2	16.7
20°-30°	479.9	21.8
30°-40°	467.5	21.3
40°-50°	350.6	16.0
50°-60°	219.8	10.0
60°-70°	114.4	5.2
70°-80°	41.4	1.9
80°-90°	16.4	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°	986.8	44.9
0°-40°	1454.3	66.2
0°-60°	2024.8	92.2
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1467	1486	1486	1497	1510	136
15°	1212	1248	1298	1378	1430	338
25°	883	932	1022	1160	1264	404
35°	534	590	714	904	1049	332
45°	197	255	411	635	814	165
55°	100	105	147	384	569	89
65°	47	50	81	155	292	48
75°	23	31	37	39	48	25
85°	10	16	19	18	13	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.8	1516.8	1516.8	1516.8	1516.8
2.5°	1503.9	1518.4	1508.7	1508.7	1508.7
5°	1466.8	1486.1	1486.1	1497.4	1510.3
7.5°	1415.2	1437.8	1452.3	1479.7	1499.0
10°	1354.0	1381.4	1408.8	1453.9	1479.7
12.5°	1284.7	1316.9	1355.6	1418.4	1457.1
15°	1212.1	1247.6	1297.6	1378.1	1429.7
17.5°	1133.1	1175.0	1234.7	1331.4	1394.3
20°	1050.9	1092.8	1167.0	1276.6	1354.0
22.5°	968.7	1013.9	1094.5	1218.6	1310.4
25°	883.3	931.7	1021.9	1160.5	1263.7
27.5°	796.3	846.2	946.2	1100.9	1212.1
30°	709.2	760.8	868.8	1036.4	1160.5
32.5°	622.2	677.0	791.4	970.3	1105.7
35°	533.5	589.9	714.1	904.3	1049.3
37.5°	448.1	504.5	636.7	836.6	992.9
40°	359.4	420.7	560.9	768.9	936.5
42.5°	272.4	335.3	485.2	701.2	875.2
45°	196.6	254.7	411.0	635.1	814.0
47.5°	151.5	183.8	335.3	567.4	754.4
50°	132.2	141.8	266.0	504.5	696.3
52.5°	114.4	120.9	199.9	446.5	633.5
55°	99.9	104.8	146.7	383.6	569.0
57.5°	83.8	90.3	116.1	322.4	502.9
60°	70.9	74.1	103.2	266.0	436.8
62.5°	58.0	61.3	91.9	209.5	362.7
65°	46.7	50.0	80.6	154.7	291.7
67.5°	38.7	40.3	67.7	109.6	224.0
70°	32.2	33.8	56.4	75.8	158.0
72.5°	27.4	32.2	45.1	54.8	99.9
75°	22.6	30.6	37.1	38.7	48.4
77.5°	19.3	29.0	30.6	30.6	27.4
80°	16.1	24.2	25.8	24.2	22.6
82.5°	12.9	19.3	21.0	21.0	17.7
85°	9.7	16.1	19.3	17.7	12.9
87.5°	6.4	14.5	16.1	14.5	9.7
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	8.07	9.42	8.44	9.74	10.05	17.68	19.03	18.05	19.35	19.66
	3H	8.93	10.13	9.31	10.46	10.82	18.52	19.72	18.90	20.05	20.42
	4H	9.35	10.47	9.75	10.82	11.20	18.60	19.72	19.00	20.07	20.45
	6H	9.78	10.81	10.19	11.18	11.57	18.58	19.61	18.99	19.98	20.37
	8H	9.96	10.93	10.39	11.32	11.73	18.57	19.54	19.00	19.93	20.34
	12H	10.12	11.05	10.55	11.43	11.86	18.56	19.49	18.99	19.87	20.30
4H	2H	9.03	10.15	9.43	10.50	10.88	17.55	18.66	17.95	19.01	19.40
	3H	10.08	11.00	10.50	11.40	11.81	18.46	19.37	18.87	19.78	20.18
	4H	10.65	11.47	11.08	11.88	12.33	18.56	19.38	18.99	19.80	20.24
	6H	11.24	11.95	11.71	12.40	12.86	18.58	19.29	19.05	19.74	20.20
	8H	11.48	12.14	11.95	12.59	13.06	18.59	19.25	19.05	19.69	20.16
	12H	11.71	12.29	12.19	12.78	13.25	18.60	19.18	19.08	19.67	20.14
8H	4H	11.12	11.78	11.59	12.22	12.70	18.48	19.14	18.95	19.59	20.06
	6H	11.93	12.47	12.43	12.97	13.45	18.54	19.08	19.04	19.57	20.05
	8H	12.31	12.80	12.83	13.31	13.80	18.57	19.06	19.09	19.57	20.06
	12H	12.70	13.13	13.22	13.63	14.20	18.63	19.06	19.15	19.56	20.13
12H	4H	11.17	11.75	11.65	12.24	12.71	18.45	19.03	18.93	19.52	19.99
	6H	12.05	12.54	12.57	13.05	13.55	18.50	18.99	19.02	19.50	20.00
	8H	12.54	12.97	13.06	13.46	14.04	18.57	19.00	19.09	19.50	20.07