

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: P1061553

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

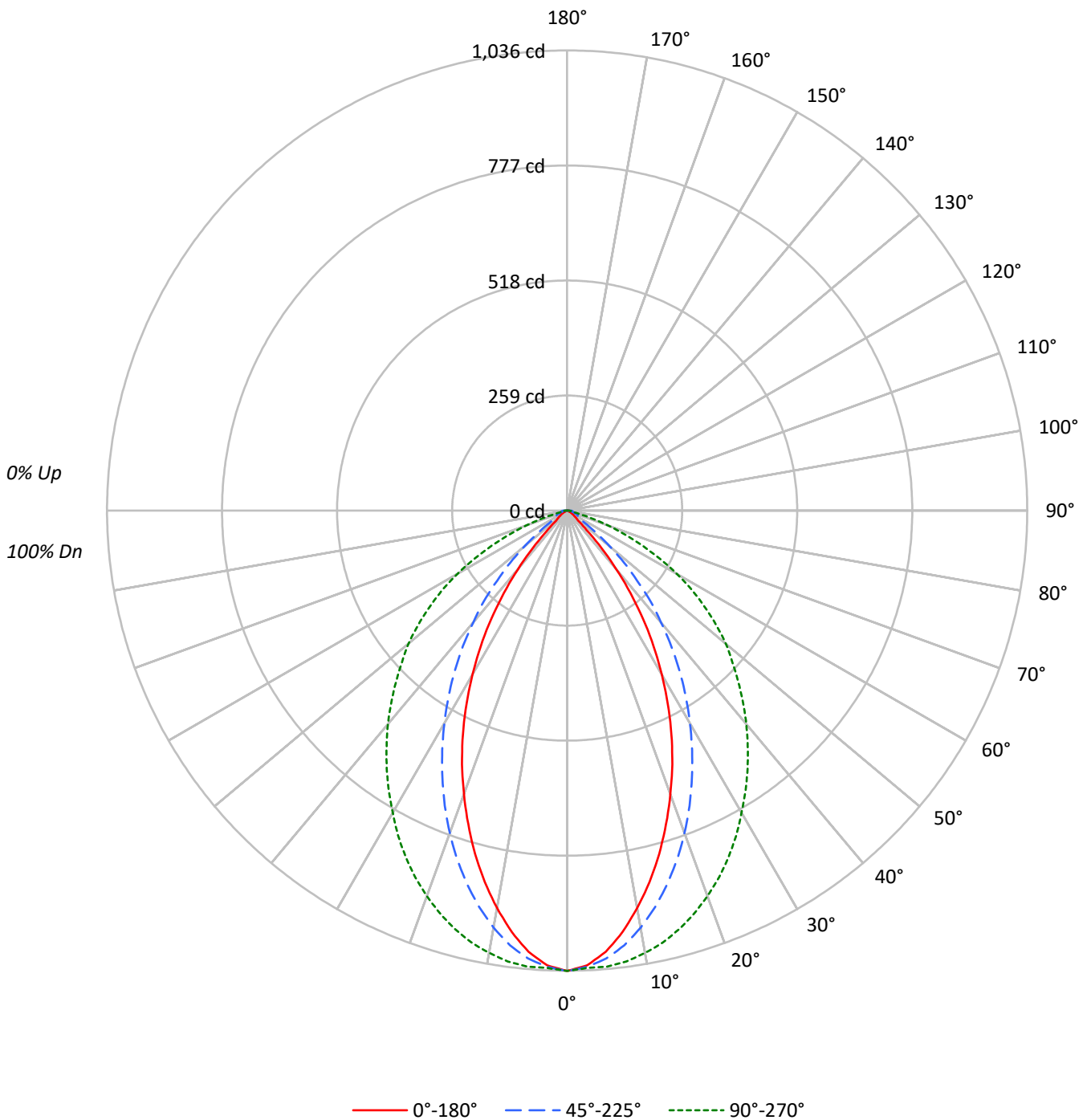
Lumens per Lamp: N/A
Luminaire Lumens: 1340.9 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7136	7136	7136
5°	6892	6996	7123
10°	6352	6666	7069
15°	5705	6206	6953
20°	4978	5662	6767
25°	4217	5047	6535
30°	3388	4394	6244
35°	2507	3707	5953
40°	1552	2960	5641
45°	606	2165	5304
50°	284	1357	4996
55°	208	581	4534
60°	143	412	3933
65°	94	432	3058
70°	93	395	1925
75°	122	399	612
80°	182	456	412
85°	276	908	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5304 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	7.1
10°-20°	246.3	18.4
20°-30°	313.6	23.4
30°-40°	291.9	21.8
40°-50°	200.9	15.0
50°-60°	113.8	8.5
60°-70°	53.7	4.0
70°-80°	16.8	1.3
80°-90°	8.8	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°	654.9	48.8
0°-40°	946.9	70.6
0°-60°	1261.6	94.1
0°-90°	1340.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	997	1011	1012	1021	1031	92
15°	800	827	871	936	975	223
25°	555	591	664	776	860	253
35°	298	340	441	592	708	184
45°	62	99	222	402	545	58
55°	17	20	48	232	378	16
65°	6	7	26	83	188	6
75°	5	10	15	16	23	5
85°	4	9	12	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.4	1036.4	1036.4	1036.4	1036.4
2.5°	1024.9	1035.2	1028.3	1029.5	1030.6
5°	997.2	1011.1	1012.2	1021.4	1030.6
7.5°	956.9	974.2	986.9	1008.8	1023.7
10°	908.6	929.3	953.5	989.2	1011.1
12.5°	856.8	880.9	914.3	965.0	996.1
15°	800.3	826.8	870.6	936.2	975.4
17.5°	740.5	770.4	823.4	901.7	951.2
20°	679.4	711.7	772.7	862.5	923.5
22.5°	618.4	651.8	719.7	819.9	893.6
25°	555.1	590.7	664.4	776.1	860.2
27.5°	490.6	527.4	609.2	731.2	824.5
30°	426.1	465.2	552.7	685.2	785.4
32.5°	362.7	401.9	497.5	639.1	747.4
35°	298.3	339.7	441.0	591.9	708.2
37.5°	233.8	278.7	385.8	543.5	667.9
40°	172.7	215.3	329.3	496.3	627.6
42.5°	115.2	156.6	278.7	449.1	586.1
45°	62.2	99.0	222.3	401.9	544.7
47.5°	33.4	53.0	173.9	355.8	504.4
50°	26.5	29.9	126.7	313.2	466.4
52.5°	21.9	24.2	82.9	272.9	422.6
55°	17.3	19.6	48.4	231.5	377.7
57.5°	13.8	16.1	31.1	192.3	334.0
60°	10.4	12.7	29.9	154.3	285.6
62.5°	8.1	9.2	27.6	118.6	234.9
65°	5.8	6.9	26.5	82.9	187.7
67.5°	4.6	5.8	24.2	53.0	140.5
70°	4.6	4.6	19.6	34.5	95.6
72.5°	4.6	8.1	17.3	23.0	57.6
75°	4.6	10.4	15.0	16.1	23.0
77.5°	4.6	11.5	12.7	12.7	12.7
80°	4.6	10.4	11.5	11.5	10.4
82.5°	4.6	9.2	10.4	11.5	9.2
85°	3.5	9.2	11.5	10.4	8.1
87.5°	3.5	9.2	10.4	9.2	5.8
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	16.07	17.36	16.44	17.68	17.99
	3H	0.00	0.00	0.00	0.00	0.08	16.79	17.93	17.17	18.27	18.63
	4H	0.00	0.21	0.00	0.56	0.94	16.82	17.88	17.22	18.23	18.61
	6H	0.41	1.38	0.82	1.75	2.15	16.77	17.74	17.18	18.11	18.51
	8H	1.05	1.97	1.48	2.36	2.77	16.74	17.67	17.17	18.06	18.46
	12H	1.64	2.53	2.08	2.91	3.34	16.73	17.61	17.16	17.99	18.42
4H	2H	0.58	1.64	0.98	1.99	2.38	15.86	16.93	16.27	17.28	17.66
	3H	1.40	2.26	1.81	2.67	3.07	16.62	17.49	17.03	17.89	18.30
	4H	2.41	3.18	2.84	3.60	4.05	16.65	17.42	17.08	17.84	18.29
	6H	3.69	4.35	4.15	4.80	5.27	16.63	17.29	17.09	17.74	18.21
	8H	4.27	4.89	4.74	5.34	5.81	16.61	17.24	17.08	17.68	18.15
	12H	4.83	5.38	5.32	5.86	6.34	16.62	17.17	17.11	17.65	18.13
8H	4H	3.82	4.45	4.29	4.89	5.37	16.53	17.16	17.00	17.60	18.07
	6H	5.39	5.89	5.89	6.39	6.87	16.52	17.03	17.02	17.53	18.01
	8H	6.18	6.63	6.70	7.15	7.64	16.53	16.99	17.06	17.51	18.00
	12H	7.02	7.42	7.53	7.92	8.49	16.59	17.00	17.11	17.49	18.07
12H	4H	4.04	4.59	4.53	5.08	5.55	16.49	17.04	16.98	17.52	18.00
	6H	5.76	6.21	6.28	6.73	7.22	16.48	16.93	17.00	17.45	17.94
	8H	6.74	7.15	7.26	7.64	8.21	16.52	16.93	17.04	17.42	17.99