

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: P1061589

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061589
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-S1270D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

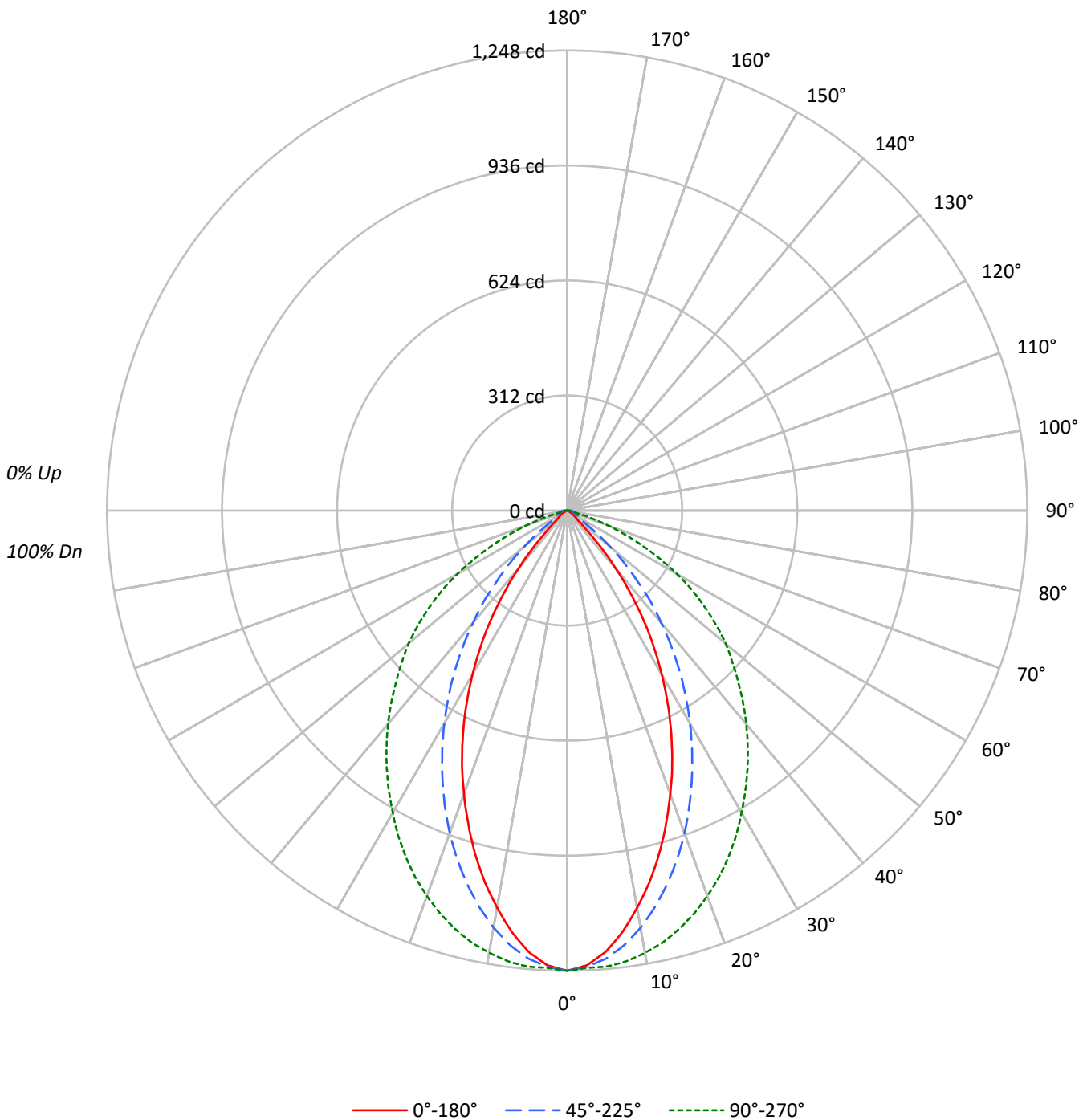
Lumens per Lamp: N/A
Luminaire Lumens: 1614.8 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80													80															
3	98	89	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	67	74	70	67	65													65															
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59													59															
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53													53															
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49													49															
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45													45															
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41													41															
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38													38															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8593	8593	8593
5°	8301	8425	8579
10°	7650	8028	8513
15°	6870	7473	8373
20°	5995	6818	8149
25°	5078	6079	7870
30°	4079	5293	7519
35°	3019	4464	7169
40°	1870	3565	6793
45°	729	2606	6387
50°	342	1634	6016
55°	250	699	5461
60°	172	497	4736
65°	112	520	3682
70°	111	475	2317
75°	146	479	737
80°	218	551	496
85°	332	1098	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	7.1
10°-20°	296.6	18.4
20°-30°	377.7	23.4
30°-40°	351.6	21.8
40°-50°	242.0	15.0
50°-60°	137.0	8.5
60°-70°	64.7	4.0
70°-80°	20.2	1.3
80°-90°	10.6	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°	788.7	48.8
0°-40°	1140.3	70.6
0°-60°	1519.3	94.1
0°-90°	1614.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1614.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1201	1218	1219	1230	1241	111
15°	964	996	1048	1128	1175	268
25°	668	711	800	935	1036	305
35°	359	409	531	713	853	222
45°	75	119	268	484	656	70
55°	21	24	58	279	455	19
65°	7	8	32	100	226	8
75°	6	12	18	19	28	6
85°	4	11	14	12	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.1	1248.1	1248.1	1248.1	1248.1
2.5°	1234.2	1246.7	1238.4	1239.8	1241.2
5°	1201.0	1217.6	1219.0	1230.1	1241.2
7.5°	1152.4	1173.2	1188.5	1214.8	1232.9
10°	1094.2	1119.1	1148.3	1191.2	1217.6
12.5°	1031.8	1060.9	1101.1	1162.1	1199.6
15°	963.8	995.7	1048.4	1127.5	1174.6
17.5°	891.7	927.8	991.6	1085.9	1145.5
20°	818.2	857.0	930.5	1038.7	1112.2
22.5°	744.7	784.9	866.7	987.4	1076.1
25°	668.4	711.4	800.2	934.7	1035.9
27.5°	590.8	635.1	733.6	880.6	992.9
30°	513.1	560.3	665.7	825.1	945.8
32.5°	436.8	484.0	599.1	769.7	900.0
35°	359.2	409.1	531.1	712.8	852.9
37.5°	281.5	335.6	464.6	654.6	804.3
40°	208.0	259.3	396.6	597.7	755.8
42.5°	138.7	188.6	335.6	540.8	705.9
45°	74.9	119.3	267.6	484.0	655.9
47.5°	40.2	63.8	209.4	428.5	607.4
50°	31.9	36.1	152.5	377.2	561.6
52.5°	26.3	29.1	99.8	328.7	509.0
55°	20.8	23.6	58.2	278.7	454.9
57.5°	16.6	19.4	37.4	231.6	402.2
60°	12.5	15.3	36.1	185.8	343.9
62.5°	9.7	11.1	33.3	142.8	282.9
65°	6.9	8.3	31.9	99.8	226.0
67.5°	5.5	6.9	29.1	63.8	169.2
70°	5.5	5.5	23.6	41.6	115.1
72.5°	5.5	9.7	20.8	27.7	69.3
75°	5.5	12.5	18.0	19.4	27.7
77.5°	5.5	13.9	15.3	15.3	15.3
80°	5.5	12.5	13.9	13.9	12.5
82.5°	5.5	11.1	12.5	13.9	11.1
85°	4.2	11.1	13.9	12.5	9.7
87.5°	4.2	11.1	12.5	11.1	6.9
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	0.02	0.33	16.72	18.01	17.08	18.32	18.64
	3H	0.00	0.02	0.00	0.35	0.72	17.44	18.58	17.82	18.91	19.28
	4H	0.00	0.84	0.18	1.19	1.57	17.46	18.52	17.86	18.88	19.26
	6H	1.03	2.01	1.45	2.38	2.78	17.41	18.39	17.83	18.76	19.15
	8H	1.67	2.60	2.10	2.99	3.39	17.39	18.31	17.82	18.70	19.11
	12H	2.27	3.15	2.70	3.53	3.96	17.37	18.25	17.81	18.64	19.07
4H	2H	1.23	2.29	1.63	2.64	3.02	16.51	17.57	16.91	17.92	18.31
	3H	2.03	2.90	2.45	3.31	3.71	17.27	18.13	17.68	18.54	18.94
	4H	3.04	3.82	3.48	4.24	4.68	17.30	18.07	17.73	18.49	18.93
	6H	4.32	4.99	4.79	5.44	5.90	17.27	17.94	17.74	18.39	18.86
	8H	4.90	5.52	5.37	5.97	6.44	17.26	17.88	17.73	18.33	18.80
	12H	5.47	6.02	5.95	6.50	6.97	17.27	17.82	17.75	18.30	18.77
8H	4H	4.46	5.09	4.93	5.53	6.00	17.18	17.80	17.65	18.25	18.72
	6H	6.03	6.53	6.53	7.03	7.51	17.17	17.68	17.67	18.17	18.66
	8H	6.82	7.27	7.34	7.79	8.28	17.18	17.64	17.70	18.15	18.65
	12H	7.66	8.06	8.18	8.56	9.13	17.24	17.64	17.76	18.14	18.71
12H	4H	4.69	5.23	5.17	5.72	6.19	17.14	17.69	17.62	18.17	18.64
	6H	6.40	6.85	6.92	7.37	7.86	17.12	17.58	17.64	18.09	18.59
	8H	7.39	7.79	7.90	8.29	8.86	17.17	17.57	17.69	18.07	18.64