

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: P1061571

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061571
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-S1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

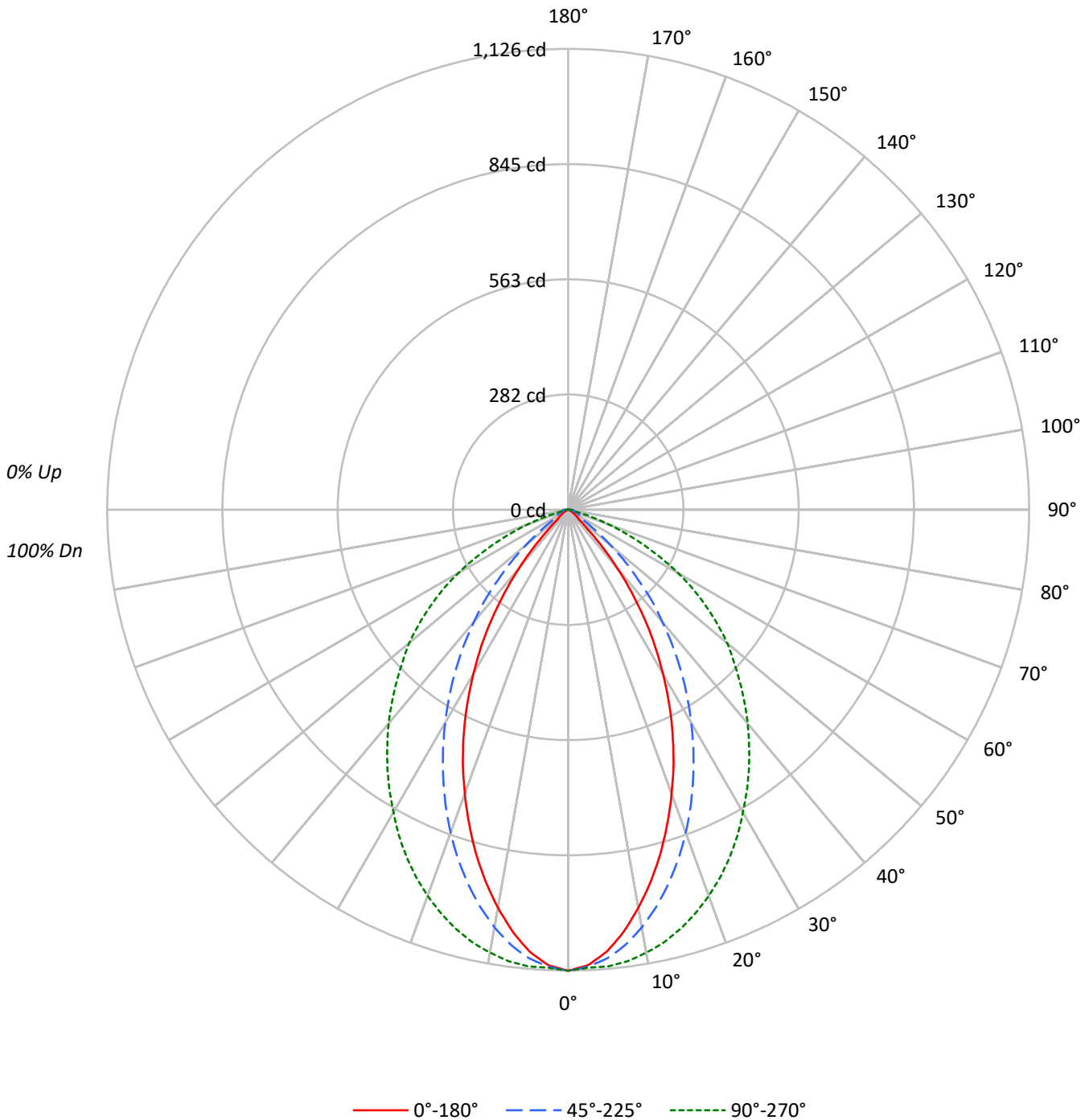
Lumens per Lamp: N/A
Luminaire Lumens: 1457.4 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7756	7756	7756
5°	7491	7604	7742
10°	6904	7245	7683
15°	6201	6745	7557
20°	5410	6153	7355
25°	4583	5487	7102
30°	3682	4777	6786
35°	2725	4030	6470
40°	1687	3218	6131
45°	658	2353	5764
50°	308	1475	5430
55°	226	631	4928
60°	156	448	4274
65°	103	469	3324
70°	101	429	2092
75°	133	434	665
80°	198	496	448
85°	300	987	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	7.1
10°-20°	267.6	18.4
20°-30°	340.9	23.4
30°-40°	317.3	21.8
40°-50°	218.4	15.0
50°-60°	123.6	8.5
60°-70°	58.4	4.0
70°-80°	18.3	1.3
80°-90°	9.5	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°	711.8	48.8
0°-40°	1029.1	70.6
0°-60°	1371.2	94.1
0°-90°	1457.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1084	1099	1100	1110	1120	100
15°	870	899	946	1018	1060	242
25°	603	642	722	844	935	275
35°	324	369	479	643	770	200
45°	68	108	242	437	592	64
55°	19	21	53	252	410	17
65°	6	8	29	90	204	7
75°	5	11	16	18	25	5
85°	4	10	12	11	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1113.9	1125.2	1117.7	1118.9	1120.2
5°	1083.9	1098.9	1100.2	1110.2	1120.2
7.5°	1040.1	1058.8	1072.6	1096.4	1112.7
10°	987.5	1010.0	1036.3	1075.1	1098.9
12.5°	931.2	957.5	993.8	1048.8	1082.6
15°	869.9	898.6	946.2	1017.5	1060.1
17.5°	804.8	837.3	894.9	980.0	1033.8
20°	738.4	773.5	839.8	937.4	1003.8
22.5°	672.1	708.4	782.2	891.1	971.2
25°	603.3	642.1	722.2	843.6	934.9
27.5°	533.2	573.2	662.1	794.8	896.1
30°	463.1	505.6	600.8	744.7	853.6
32.5°	394.3	436.8	540.7	694.6	812.3
35°	324.2	369.2	479.4	643.3	769.7
37.5°	254.1	302.9	419.3	590.8	725.9
40°	187.7	234.0	358.0	539.4	682.1
42.5°	125.2	170.2	302.9	488.1	637.1
45°	67.6	107.6	241.6	436.8	592.0
47.5°	36.3	57.6	189.0	386.7	548.2
50°	28.8	32.5	137.7	340.4	506.9
52.5°	23.8	26.3	90.1	296.6	459.3
55°	18.8	21.3	52.6	251.6	410.5
57.5°	15.0	17.5	33.8	209.0	363.0
60°	11.3	13.8	32.5	167.7	310.4
62.5°	8.8	10.0	30.0	128.9	255.3
65°	6.3	7.5	28.8	90.1	204.0
67.5°	5.0	6.3	26.3	57.6	152.7
70°	5.0	5.0	21.3	37.5	103.9
72.5°	5.0	8.8	18.8	25.0	62.6
75°	5.0	11.3	16.3	17.5	25.0
77.5°	5.0	12.5	13.8	13.8	13.8
80°	5.0	11.3	12.5	12.5	11.3
82.5°	5.0	10.0	11.3	12.5	10.0
85°	3.8	10.0	12.5	11.3	8.8
87.5°	3.8	10.0	11.3	10.0	6.3
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	0.00	0.00	0.00	0.00	0.00	16.36	17.65	16.73	17.96	18.28
	3H	0.00	0.00	0.00	0.00	0.37	17.08	18.22	17.46	18.55	18.92
	4H	0.00	0.50	0.00	0.85	1.23	17.10	18.17	17.51	18.52	18.90
	6H	0.70	1.67	1.11	2.04	2.44	17.06	18.03	17.47	18.40	18.80
	8H	1.34	2.26	1.77	2.65	3.06	17.03	17.96	17.46	18.35	18.75
	12H	1.93	2.81	2.37	3.20	3.63	17.02	17.90	17.45	18.28	18.71
4H	2H	0.87	1.93	1.27	2.28	2.67	16.15	17.22	16.56	17.57	17.95
	3H	1.69	2.55	2.10	2.96	3.36	16.91	17.78	17.32	18.18	18.58
	4H	2.70	3.47	3.13	3.89	4.34	16.94	17.71	17.37	18.13	18.58
	6H	3.98	4.64	4.44	5.09	5.56	16.92	17.58	17.38	18.03	18.50
	8H	4.55	5.18	5.02	5.63	6.10	16.90	17.52	17.37	17.97	18.44
	12H	5.12	5.67	5.61	6.15	6.63	16.91	17.46	17.40	17.94	18.42
8H	4H	4.11	4.74	4.58	5.18	5.65	16.82	17.44	17.29	17.89	18.36
	6H	5.67	6.18	6.18	6.68	7.16	16.81	17.32	17.31	17.82	18.30
	8H	6.47	6.92	6.99	7.44	7.93	16.82	17.28	17.35	17.80	18.29
	12H	7.31	7.71	7.82	8.20	8.78	16.88	17.29	17.40	17.78	18.35
12H	4H	4.33	4.88	4.82	5.37	5.84	16.78	17.33	17.27	17.81	18.29
	6H	6.04	6.50	6.57	7.02	7.51	16.76	17.22	17.29	17.74	18.23
	8H	7.03	7.44	7.55	7.93	8.50	16.81	17.22	17.33	17.71	18.28