

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: P1061490

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061490
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-S1090D935-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

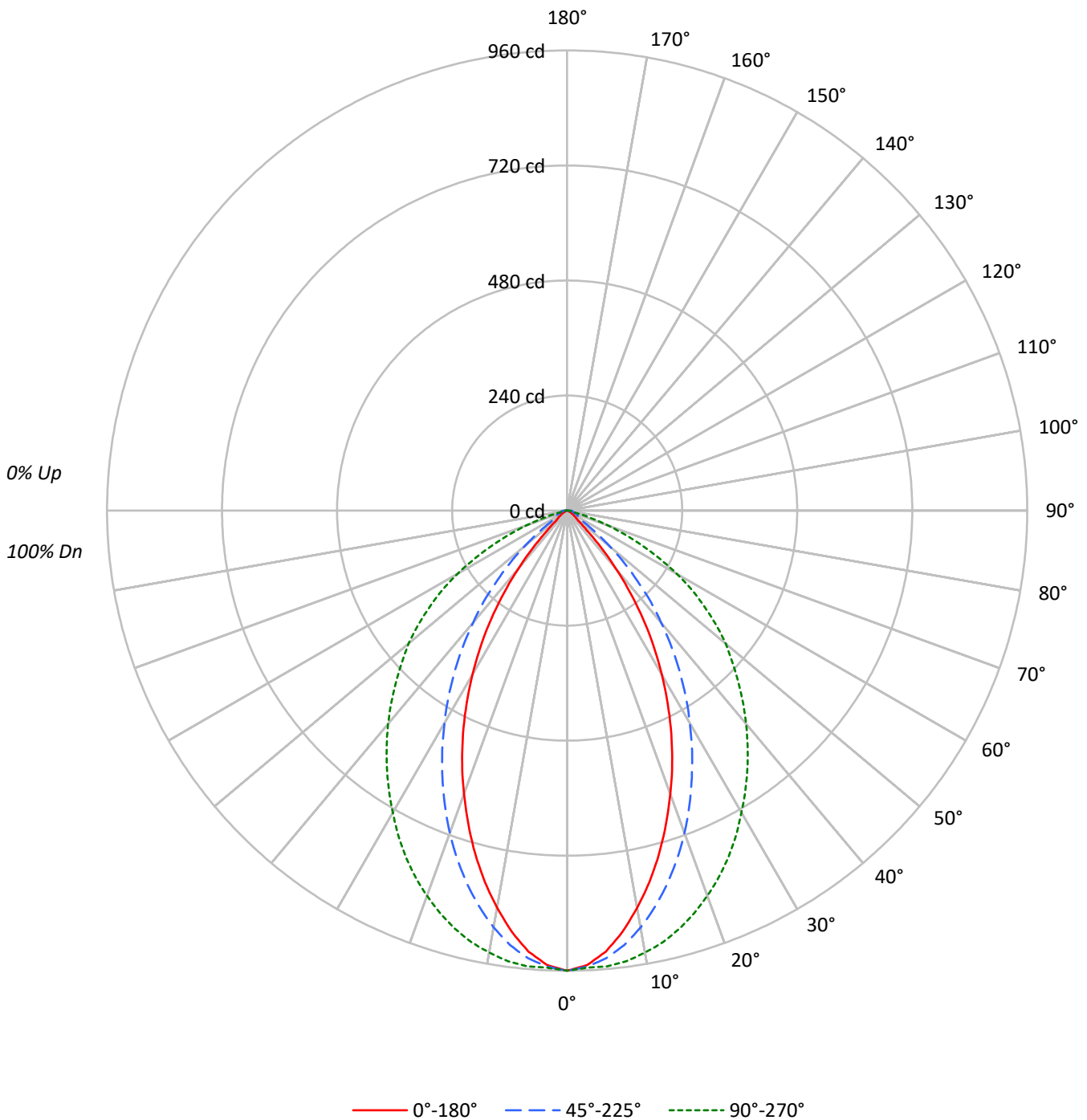
Lumens per Lamp: N/A
Luminaire Lumens: 1241.8 lumens
Efficiency: N/A
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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°	6608	6608	6608
5°	6383	6479	6597
10°	5883	6173	6546
15°	5283	5747	6439
20°	4610	5243	6267
25°	3905	4674	6052
30°	3137	4070	5782
35°	2322	3434	5513
40°	1438	2741	5224
45°	561	2004	4911
50°	262	1256	4626
55°	192	538	4199
60°	132	381	3642
65°	86	399	2832
70°	87	364	1782
75°	114	370	567
80°	170	424	381
85°	253	845	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	7.1
10°-20°	228.1	18.4
20°-30°	290.5	23.4
30°-40°	270.4	21.8
40°-50°	186.1	15.0
50°-60°	105.4	8.5
60°-70°	49.8	4.0
70°-80°	15.6	1.3
80°-90°	8.1	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°	606.5	48.8
0°-40°	876.9	70.6
0°-60°	1168.3	94.1
0°-90°	1241.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	924	936	937	946	954	86
15°	741	766	806	867	903	206
25°	514	547	615	719	797	234
35°	276	315	408	548	656	171
45°	58	92	206	372	504	54
55°	16	18	45	214	350	15
65°	5	6	24	77	174	6
75°	4	10	14	15	21	5
85°	3	8	11	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.8	959.8	959.8	959.8	959.8
2.5°	949.1	958.7	952.3	953.4	954.5
5°	923.6	936.3	937.4	945.9	954.5
7.5°	886.2	902.2	914.0	934.2	948.1
10°	841.4	860.6	883.0	916.1	936.3
12.5°	793.4	815.8	846.8	893.7	922.5
15°	741.2	765.7	806.2	867.0	903.3
17.5°	685.7	713.5	762.5	835.0	880.9
20°	629.2	659.1	715.6	798.8	855.3
22.5°	572.7	603.6	666.5	759.3	827.6
25°	514.0	547.1	615.3	718.8	796.6
27.5°	454.3	488.4	564.2	677.2	763.6
30°	394.6	430.8	511.9	634.5	727.3
32.5°	335.9	372.2	460.7	591.9	692.1
35°	276.2	314.6	408.5	548.2	655.9
37.5°	216.5	258.1	357.3	503.4	618.5
40°	160.0	199.4	305.0	459.6	581.2
42.5°	106.6	145.0	258.1	415.9	542.8
45°	57.6	91.7	205.8	372.2	504.4
47.5°	30.9	49.1	161.0	329.5	467.1
50°	24.5	27.7	117.3	290.1	431.9
52.5°	20.3	22.4	76.8	252.7	391.4
55°	16.0	18.1	44.8	214.4	349.8
57.5°	12.8	14.9	28.8	178.1	309.3
60°	9.6	11.7	27.7	142.9	264.5
62.5°	7.5	8.5	25.6	109.8	217.6
65°	5.3	6.4	24.5	76.8	173.8
67.5°	4.3	5.3	22.4	49.1	130.1
70°	4.3	4.3	18.1	32.0	88.5
72.5°	4.3	7.5	16.0	21.3	53.3
75°	4.3	9.6	13.9	14.9	21.3
77.5°	4.3	10.7	11.7	11.7	11.7
80°	4.3	9.6	10.7	10.7	9.6
82.5°	4.3	8.5	9.6	10.7	8.5
85°	3.2	8.5	10.7	9.6	7.5
87.5°	3.2	8.5	9.6	8.5	5.3
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	15.81	17.10	16.17	17.41	17.72
	3H	0.00	0.00	0.00	0.00	0.00	16.53	17.67	16.91	18.00	18.36
	4H	0.00	0.00	0.00	0.30	0.68	16.55	17.61	16.95	17.96	18.35
	6H	0.16	1.13	0.57	1.50	1.90	16.50	17.48	16.92	17.85	18.24
	8H	0.80	1.72	1.23	2.11	2.52	16.48	17.40	16.91	17.79	18.20
	12H	1.39	2.27	1.82	2.65	3.09	16.46	17.34	16.89	17.73	18.16
4H	2H	0.31	1.37	0.71	1.72	2.10	15.60	16.66	16.00	17.01	17.39
	3H	1.12	1.99	1.54	2.40	2.80	16.35	17.22	16.77	17.63	18.03
	4H	2.14	2.91	2.57	3.33	3.78	16.38	17.16	16.82	17.58	18.02
	6H	3.42	4.09	3.89	4.54	5.01	16.36	17.03	16.82	17.47	17.94
	8H	4.01	4.63	4.48	5.08	5.55	16.35	16.97	16.82	17.42	17.89
	12H	4.57	5.12	5.05	5.60	6.07	16.35	16.90	16.84	17.39	17.86
8H	4H	3.55	4.18	4.02	4.62	5.09	16.27	16.89	16.74	17.34	17.81
	6H	5.12	5.63	5.62	6.12	6.61	16.26	16.76	16.76	17.26	17.74
	8H	5.91	6.37	6.43	6.88	7.38	16.27	16.72	16.79	17.24	17.73
	12H	6.75	7.15	7.26	7.64	8.22	16.33	16.73	16.84	17.23	17.80
12H	4H	3.77	4.32	4.26	4.81	5.28	16.22	16.77	16.71	17.26	17.73
	6H	5.49	5.95	6.01	6.46	6.96	16.21	16.67	16.73	17.18	17.67
	8H	6.48	6.88	6.99	7.38	7.95	16.26	16.66	16.77	17.16	17.73