

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: P1061489

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

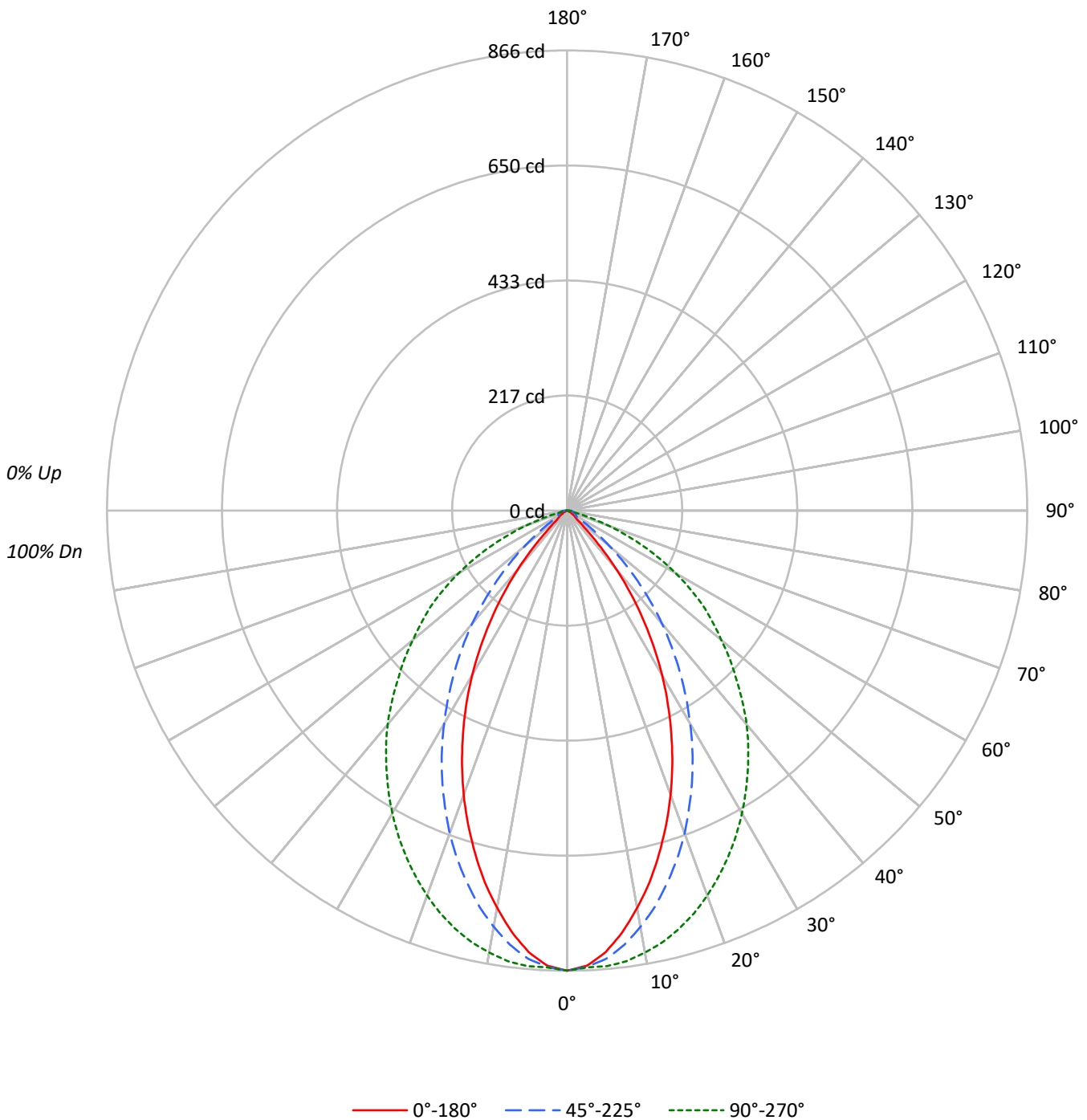
Lumens per Lamp: N/A
Luminaire Lumens: 1113.6 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	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	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5961	5961	5961
5°	5763	5851	5947
10°	5308	5562	5904
15°	4766	5176	5807
20°	4172	4735	5648
25°	3523	4229	5452
30°	2840	3679	5231
35°	2088	3101	4984
40°	1303	2501	4725
45°	488	1828	4391
50°	228	1142	4054
55°	167	474	3750
60°	117	249	3246
65°	70	295	2571
70°	64	344	1631
75°	85	341	511
80°	127	424	381
85°	253	671	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4391 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	7.1
10°-20°	205.5	18.5
20°-30°	261.8	23.5
30°-40°	243.7	21.9
40°-50°	167.0	15.0
50°-60°	91.9	8.3
60°-70°	43.5	3.9
70°-80°	13.7	1.2
80°-90°	7.0	0.6
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°	546.8	49.1
0°-40°	790.5	71.0
0°-60°	1049.4	94.2
0°-90°	1113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	834	844	847	853	860	77
15°	669	690	726	780	815	186
25°	464	493	557	646	718	212
35°	248	284	369	490	593	154
45°	50	84	188	333	451	48
55°	14	16	40	186	312	13
65°	4	5	18	68	158	5
75°	3	5	13	14	19	3
85°	3	8	8	8	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.8	865.8	865.8	865.8	865.8
2.5°	857.3	865.8	859.4	859.4	860.5
5°	833.8	844.5	846.6	853.0	860.5
7.5°	799.7	813.6	824.2	842.4	855.2
10°	759.2	776.3	795.5	825.3	844.5
12.5°	716.6	734.7	763.5	805.1	831.7
15°	668.6	689.9	726.1	780.5	814.6
17.5°	619.5	643.0	687.8	751.7	794.4
20°	569.4	593.9	646.2	717.6	770.9
22.5°	517.2	543.8	601.4	682.4	745.3
25°	463.8	492.6	556.6	646.2	717.6
27.5°	410.5	440.4	510.8	608.9	688.8
30°	357.2	388.1	462.8	570.5	657.9
32.5°	302.8	336.9	415.9	532.1	625.9
35°	248.4	283.6	368.9	490.5	592.9
37.5°	195.1	231.4	323.1	451.0	559.8
40°	145.0	181.3	278.3	411.6	525.7
42.5°	93.8	132.2	231.4	371.1	488.4
45°	50.1	84.2	187.7	332.7	451.0
47.5°	26.7	44.8	146.1	294.3	415.9
50°	21.3	24.5	106.6	255.9	378.5
52.5°	17.1	19.2	68.2	216.5	345.5
55°	13.9	16.0	39.5	185.5	312.4
57.5°	10.7	12.8	22.4	154.6	274.0
60°	8.5	9.6	18.1	123.7	235.7
62.5°	5.3	7.5	18.1	96.0	197.3
65°	4.3	5.3	18.1	68.2	157.8
67.5°	4.3	4.3	18.1	44.8	118.4
70°	3.2	3.2	17.1	28.8	81.0
72.5°	3.2	3.2	14.9	19.2	46.9
75°	3.2	5.3	12.8	13.9	19.2
77.5°	3.2	8.5	11.7	11.7	10.7
80°	3.2	8.5	10.7	9.6	9.6
82.5°	3.2	8.5	8.5	8.5	7.5
85°	3.2	7.5	8.5	7.5	6.4
87.5°	3.2	7.5	7.5	7.5	4.3
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	15.25	16.53	15.61	16.85	17.16
	3H	0.00	0.00	0.00	0.00	0.00	16.03	17.17	16.41	17.50	17.87
	4H	0.00	0.00	0.00	0.00	0.00	16.06	17.12	16.46	17.47	17.85
	6H	0.00	0.00	0.00	0.28	0.68	16.02	16.99	16.43	17.36	17.75
	8H	0.00	0.53	0.05	0.92	1.33	15.99	16.91	16.43	17.30	17.71
	12H	0.36	1.24	0.80	1.62	2.05	15.98	16.85	16.41	17.24	17.67
4H	2H	0.00	0.08	0.00	0.44	0.82	15.03	16.09	15.43	16.44	16.82
	3H	0.00	0.77	0.32	1.17	1.57	15.86	16.72	16.27	17.13	17.53
	4H	0.49	1.26	0.93	1.68	2.13	15.89	16.66	16.33	17.08	17.53
	6H	1.99	2.65	2.45	3.10	3.56	15.88	16.54	16.34	16.99	17.46
	8H	2.73	3.35	3.20	3.79	4.26	15.86	16.48	16.33	16.93	17.40
	12H	3.47	4.02	3.96	4.50	4.98	15.87	16.41	16.35	16.90	17.37
8H	4H	2.53	3.15	3.01	3.60	4.07	15.78	16.40	16.25	16.85	17.32
	6H	4.28	4.78	4.78	5.28	5.76	15.78	16.29	16.28	16.78	17.27
	8H	5.23	5.68	5.75	6.20	6.69	15.79	16.24	16.31	16.76	17.25
	12H	6.17	6.57	6.68	7.06	7.63	15.83	16.23	16.35	16.73	17.30
12H	4H	2.84	3.38	3.32	3.87	4.34	15.74	16.28	16.22	16.77	17.24
	6H	4.73	5.19	5.26	5.71	6.20	15.74	16.19	16.26	16.71	17.20
	8H	5.86	6.26	6.38	6.76	7.33	15.78	16.18	16.29	16.67	17.24