

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: P1061480

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061480
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-S1090D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

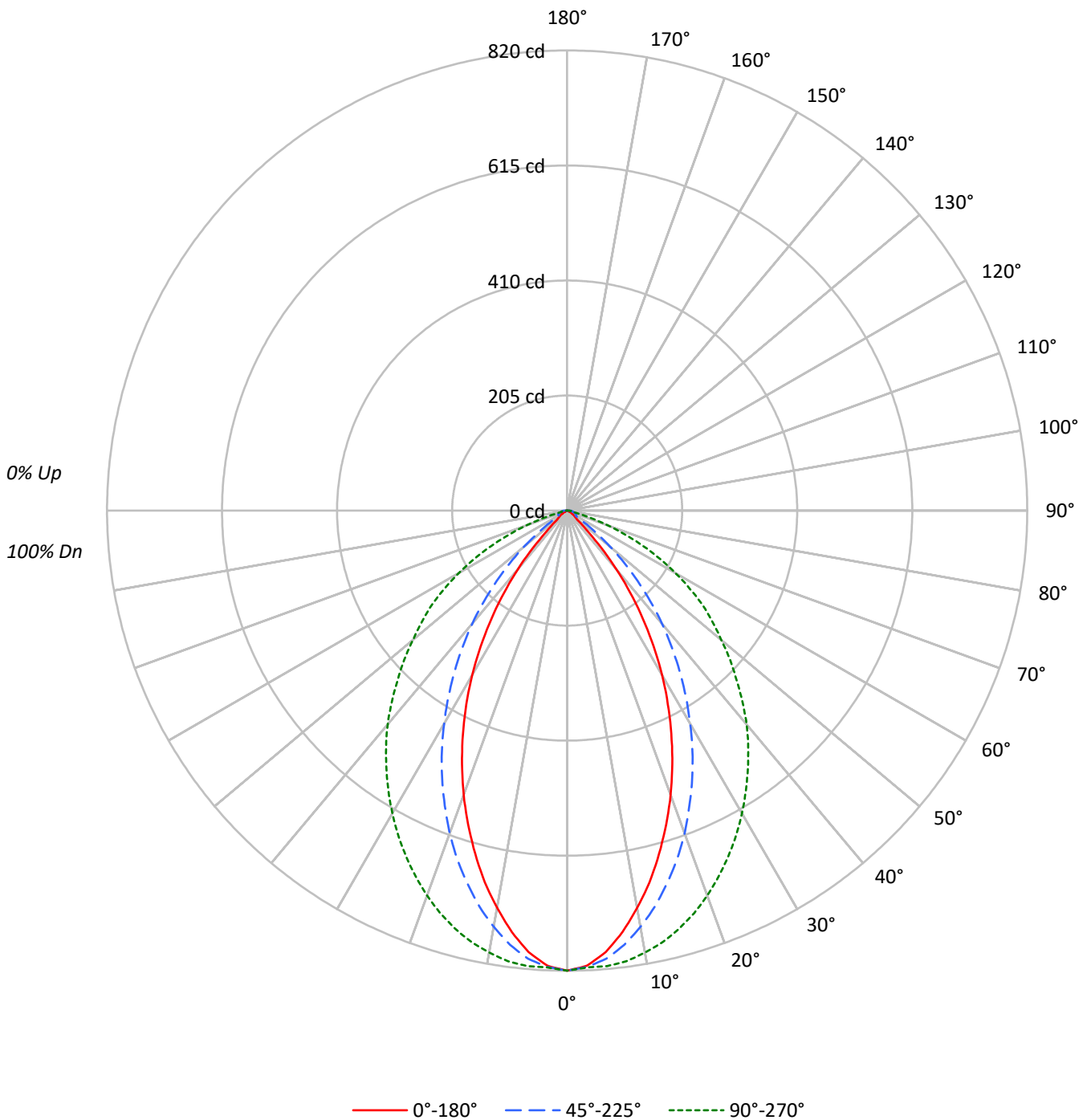
Lumens per Lamp: N/A
Luminaire Lumens: 1054.5 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5645	5645	5645
5°	5457	5541	5632
10°	5026	5266	5591
15°	4513	4901	5499
20°	3951	4483	5349
25°	3337	4004	5162
30°	2689	3484	4953
35°	1978	2937	4719
40°	1234	2368	4474
45°	463	1730	4159
50°	216	1082	3839
55°	157	449	3551
60°	112	237	3072
65°	65	280	2434
70°	60	326	1544
75°	80	322	484
80°	119	400	361
85°	237	640	482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	7.1
10°-20°	194.6	18.5
20°-30°	247.9	23.5
30°-40°	230.8	21.9
40°-50°	158.1	15.0
50°-60°	87.1	8.3
60°-70°	41.2	3.9
70°-80°	12.9	1.2
80°-90°	6.7	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°	517.8	49.1
0°-40°	748.5	71.0
0°-60°	993.7	94.2
0°-90°	1054.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	790	800	802	808	815	73
15°	633	653	688	739	771	176
25°	439	466	527	612	680	201
35°	235	269	349	464	561	146
45°	48	80	178	315	427	45
55°	13	15	37	176	296	12
65°	4	5	17	65	149	5
75°	3	5	12	13	18	3
85°	3	7	8	7	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.9	819.9	819.9	819.9	819.9
2.5°	811.8	819.9	813.8	813.8	814.8
5°	789.6	799.7	801.7	807.8	814.8
7.5°	757.3	770.4	780.5	797.7	809.8
10°	718.9	735.1	753.2	781.5	799.7
12.5°	678.5	695.7	722.9	762.3	787.6
15°	633.1	653.3	687.6	739.1	771.4
17.5°	586.6	608.8	651.3	711.8	752.2
20°	539.2	562.4	611.9	679.5	730.0
22.5°	489.7	514.9	569.5	646.2	705.8
25°	439.2	466.5	527.1	611.9	679.5
27.5°	388.7	417.0	483.6	576.5	652.3
30°	338.2	367.5	438.2	540.2	623.0
32.5°	286.8	319.1	393.8	503.8	592.7
35°	235.3	268.6	349.4	464.5	561.4
37.5°	184.8	219.1	305.9	427.1	530.1
40°	137.3	171.6	263.5	389.7	497.8
42.5°	88.9	125.2	219.1	351.4	462.4
45°	47.5	79.8	177.7	315.0	427.1
47.5°	25.2	42.4	138.3	278.7	393.8
50°	20.2	23.2	101.0	242.3	358.4
52.5°	16.2	18.2	64.6	205.0	327.1
55°	13.1	15.1	37.4	175.7	295.8
57.5°	10.1	12.1	21.2	146.4	259.5
60°	8.1	9.1	17.2	117.1	223.1
62.5°	5.0	7.1	17.2	90.9	186.8
65°	4.0	5.0	17.2	64.6	149.4
67.5°	4.0	4.0	17.2	42.4	112.1
70°	3.0	3.0	16.2	27.3	76.7
72.5°	3.0	3.0	14.1	18.2	44.4
75°	3.0	5.0	12.1	13.1	18.2
77.5°	3.0	8.1	11.1	11.1	10.1
80°	3.0	8.1	10.1	9.1	9.1
82.5°	3.0	8.1	8.1	8.1	7.1
85°	3.0	7.1	8.1	7.1	6.1
87.5°	3.0	7.1	7.1	7.1	4.0
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	15.06	16.34	15.42	16.66	16.97
	3H	0.00	0.00	0.00	0.00	0.00	15.85	16.98	16.23	17.31	17.68
	4H	0.00	0.00	0.00	0.00	0.00	15.87	16.93	16.27	17.28	17.66
	6H	0.00	0.00	0.00	0.07	0.46	15.83	16.80	16.24	17.17	17.56
	8H	0.00	0.32	0.00	0.71	1.11	15.80	16.72	16.24	17.11	17.52
	12H	0.14	1.02	0.58	1.40	1.84	15.79	16.66	16.22	17.05	17.48
4H	2H	0.00	0.00	0.00	0.25	0.64	14.84	15.90	15.24	16.25	16.63
	3H	0.00	0.57	0.12	0.98	1.38	15.67	16.53	16.08	16.94	17.34
	4H	0.30	1.07	0.73	1.49	1.93	15.70	16.47	16.14	16.89	17.34
	6H	1.80	2.46	2.26	2.91	3.38	15.69	16.36	16.16	16.80	17.27
	8H	2.54	3.16	3.01	3.60	4.08	15.68	16.30	16.15	16.74	17.21
	12H	3.28	3.82	3.76	4.31	4.78	15.68	16.22	16.16	16.71	17.18
8H	4H	2.34	2.96	2.81	3.41	3.88	15.59	16.21	16.06	16.66	17.13
	6H	4.09	4.60	4.60	5.10	5.58	15.59	16.10	16.09	16.59	17.08
	8H	5.05	5.50	5.57	6.02	6.51	15.60	16.05	16.12	16.57	17.06
	12H	5.98	6.38	6.50	6.88	7.45	15.64	16.05	16.16	16.54	17.11
12H	4H	2.64	3.19	3.13	3.67	4.15	15.55	16.09	16.03	16.58	17.05
	6H	4.55	5.01	5.08	5.52	6.02	15.55	16.00	16.07	16.52	17.01
	8H	5.69	6.09	6.20	6.58	7.16	15.59	15.99	16.10	16.48	17.05