

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061897

Luminaire Tested: S125RDR-H1090D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1090D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

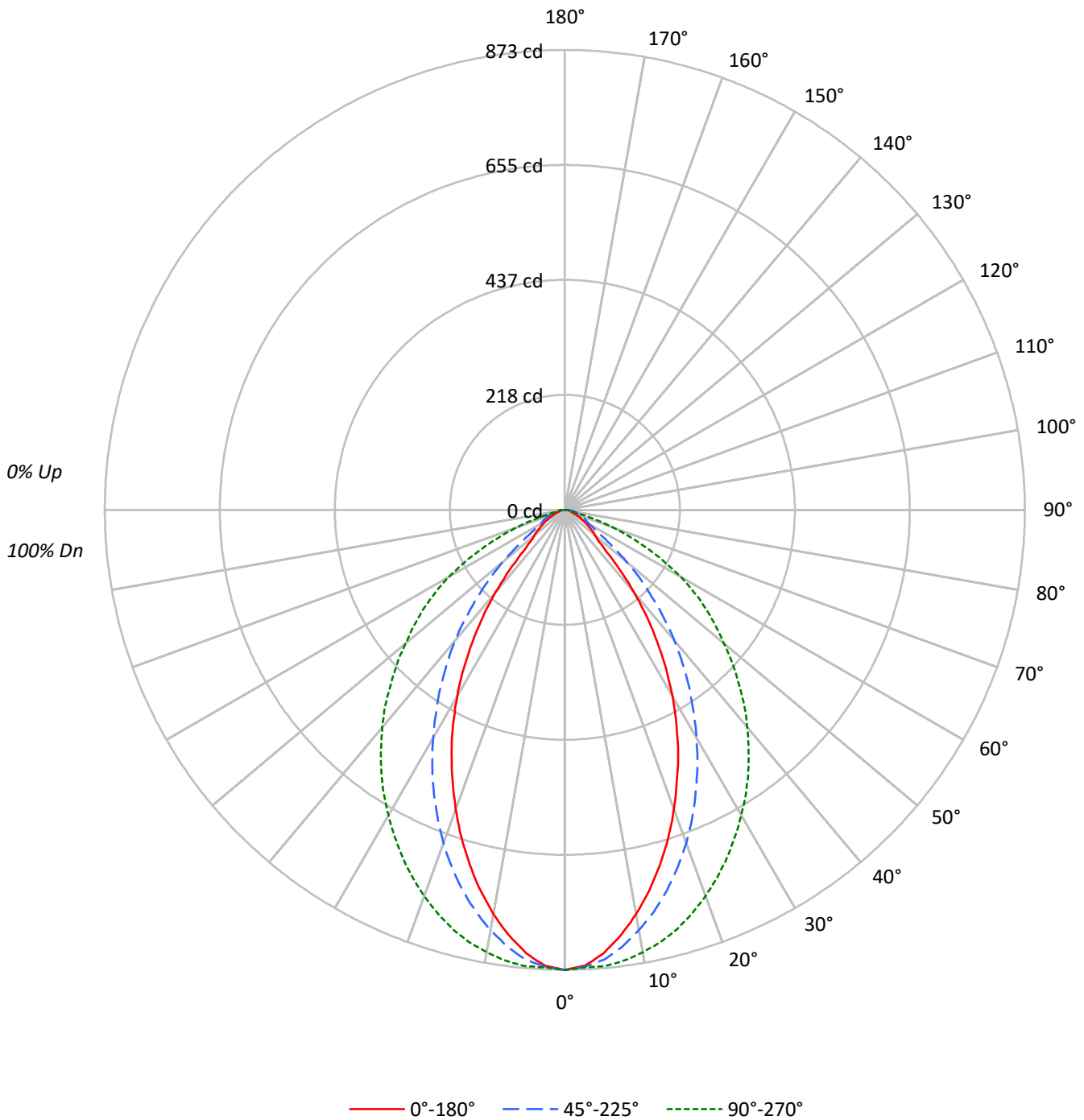
Lumens per Lamp: N/A
Luminaire Lumens: 1261.2 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6014	6014	6014
5°	5836	5922	6008
10°	5447	5664	5962
15°	4970	5332	5871
20°	4434	4934	5717
25°	3865	4471	5534
30°	3245	3970	5321
35°	2560	3457	5103
40°	1834	2906	4843
45°	1080	2280	4539
50°	799	1642	4217
55°	671	995	3918
60°	543	727	3495
65°	422	692	2802
70°	354	646	1898
75°	330	580	827
80°	329	575	535
85°	411	735	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	6.4
10°-20°	211.4	16.8
20°-30°	276.3	21.9
30°-40°	268.9	21.3
40°-50°	201.0	15.9
50°-60°	124.7	9.9
60°-70°	65.5	5.2
70°-80°	23.9	1.9
80°-90°	9.0	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°	568.2	45.1
0°-40°	837.1	66.4
0°-60°	1162.8	92.2
0°-90°	1261.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	844	856	857	862	869	79
15°	697	718	748	794	824	195
25°	509	535	588	668	728	232
35°	305	338	411	521	607	190
45°	111	145	234	366	466	93
55°	56	59	83	216	326	50
65°	26	28	42	91	172	27
75°	12	14	22	24	31	14
85°	5	9	9	9	7	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.4	873.4	873.4	873.4	873.4
2.5°	866.2	873.4	868.2	868.2	869.3
5°	844.4	855.8	856.8	862.0	869.3
7.5°	814.4	827.8	836.1	851.7	863.1
10°	779.1	794.7	810.2	836.1	852.7
12.5°	739.8	758.4	781.2	816.4	840.3
15°	697.3	718.0	748.0	793.6	823.7
17.5°	652.7	674.5	711.8	766.7	803.0
20°	605.1	628.9	673.4	735.6	780.2
22.5°	556.4	583.3	632.0	702.5	755.3
25°	508.7	534.6	588.5	668.3	728.4
27.5°	459.0	485.9	545.0	633.0	699.4
30°	408.2	437.2	499.4	596.8	669.3
32.5°	357.4	387.5	454.8	559.5	639.3
35°	304.6	337.8	411.3	521.1	607.1
37.5°	254.9	290.1	366.8	481.8	572.9
40°	204.1	240.4	323.3	443.4	538.8
42.5°	154.4	191.7	278.7	404.1	504.6
45°	110.9	145.1	234.2	365.7	466.2
47.5°	85.0	104.6	192.7	326.4	432.0
50°	74.6	80.8	153.3	288.0	393.7
52.5°	65.3	69.4	114.0	250.7	360.6
55°	55.9	59.1	82.9	215.5	326.4
57.5°	47.7	50.8	63.2	183.4	291.1
60°	39.4	42.5	52.8	151.3	253.8
62.5°	33.2	34.2	47.7	121.2	212.4
65°	25.9	28.0	42.5	91.2	172.0
67.5°	21.8	22.8	37.3	65.3	132.6
70°	17.6	18.6	32.1	45.6	94.3
72.5°	15.5	15.5	26.9	33.2	60.1
75°	12.4	14.5	21.8	23.8	31.1
77.5°	10.4	14.5	18.6	17.6	16.6
80°	8.3	13.5	14.5	14.5	13.5
82.5°	7.3	11.4	12.4	11.4	10.4
85°	5.2	9.3	9.3	9.3	7.3
87.5°	4.1	8.3	7.3	7.3	5.2
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	6.02	7.37	6.39	7.69	8.00	15.72	17.07	16.09	17.39	17.70
	3H	6.86	8.06	7.24	8.39	8.75	16.64	17.83	17.02	18.16	18.53
	4H	7.22	8.34	7.62	8.69	9.07	16.73	17.85	17.14	18.20	18.58
	6H	7.59	8.62	8.01	8.99	9.38	16.72	17.75	17.13	18.12	18.51
	8H	7.78	8.75	8.21	9.14	9.54	16.71	17.68	17.14	18.07	18.48
	12H	7.94	8.87	8.37	9.25	9.68	16.70	17.63	17.13	18.01	18.44
4H	2H	6.85	7.97	7.26	8.32	8.70	15.57	16.69	15.98	17.04	17.42
	3H	7.91	8.82	8.32	9.23	9.63	16.56	17.48	16.98	17.88	18.29
	4H	8.36	9.18	8.80	9.60	10.04	16.69	17.51	17.13	17.93	18.37
	6H	8.92	9.63	9.38	10.07	10.54	16.73	17.43	17.19	17.88	18.34
	8H	9.18	9.84	9.65	10.29	10.76	16.73	17.39	17.19	17.83	18.30
	12H	9.43	10.01	9.91	10.49	10.97	16.74	17.32	17.22	17.80	18.27
8H	4H	8.92	9.58	9.38	10.02	10.49	16.62	17.28	17.09	17.72	18.19
	6H	9.70	10.24	10.20	10.73	11.21	16.68	17.22	17.18	17.71	18.19
	8H	10.11	10.60	10.64	11.11	11.61	16.71	17.19	17.23	17.71	18.20
	12H	10.53	10.96	11.05	11.45	12.02	16.76	17.19	17.27	17.68	18.25
12H	4H	8.98	9.56	9.46	10.04	10.52	16.58	17.17	17.07	17.65	18.12
	6H	9.84	10.32	10.36	10.84	11.33	16.64	17.13	17.16	17.64	18.13
	8H	10.37	10.80	10.88	11.29	11.86	16.71	17.14	17.22	17.63	18.20