

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: P1061896

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
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-B
Description: DEFINE 5 BLACK 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

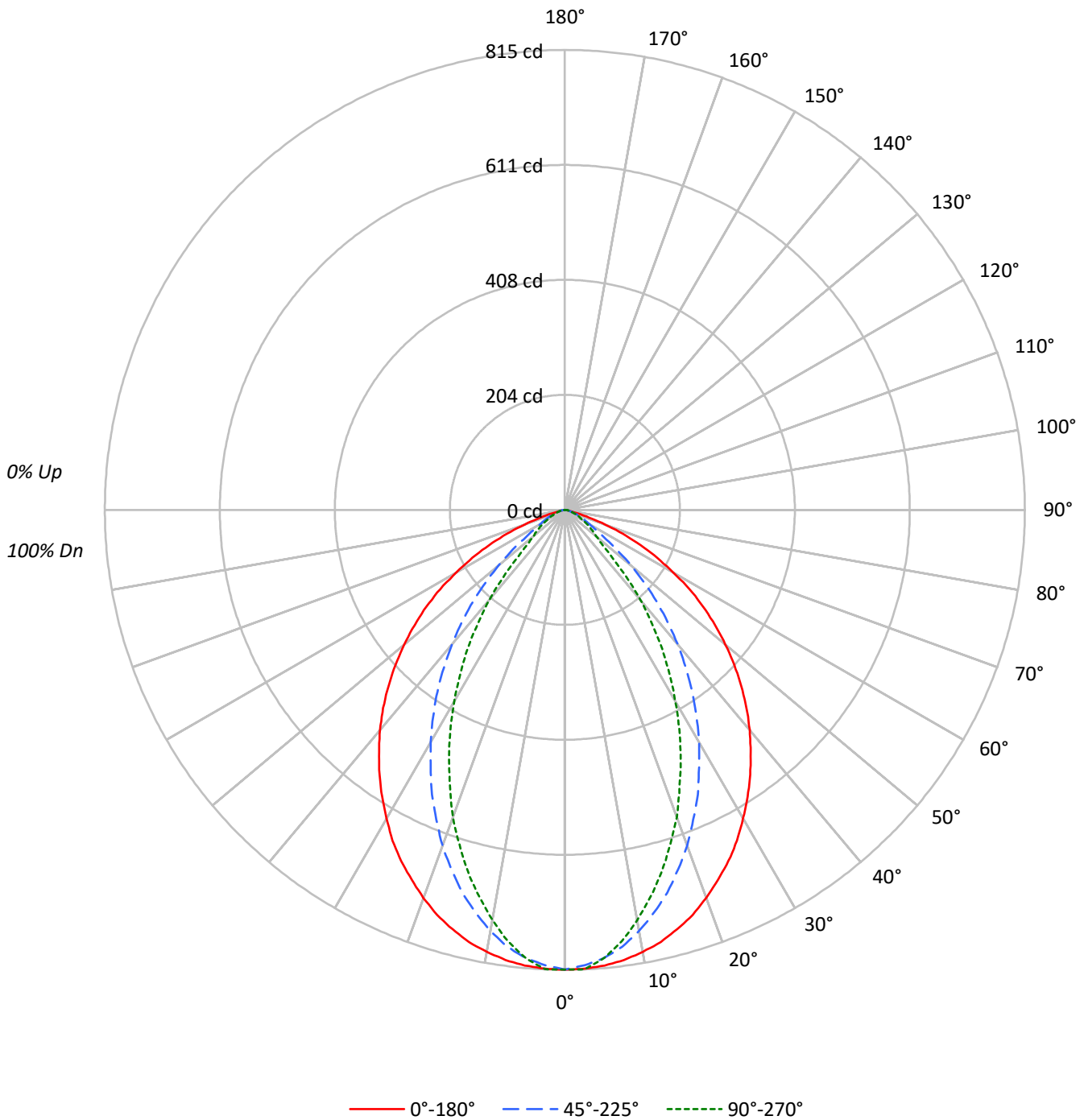
Lumens per Lamp: N/A
Luminaire Lumens: 1178.4 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57	
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52	
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43			43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5610	5610	5610
5°	5603	5510	5510
10°	5560	5299	5161
15°	5484	5004	4731
20°	5363	4642	4248
25°	5215	4232	3689
30°	5021	3778	3112
35°	4813	3307	2524
40°	4579	2792	1870
45°	4305	2239	1130
50°	3981	1641	777
55°	3592	1007	646
60°	3052	684	514
65°	2413	523	404
70°	1522	374	334
75°	495	277	277
80°	163	206	246
85°	79	166	166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	6.4
10°-20°	199.0	16.9
20°-30°	261.8	22.2
30°-40°	257.2	21.8
40°-50°	194.6	16.5
50°-60°	118.0	10.0
60°-70°	55.7	4.7
70°-80°	14.5	1.2
80°-90°	2.2	0.2
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°	536.2	45.5
0°-40°	793.4	67.3
0°-60°	1106.0	93.9
0°-90°	1178.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	811	809	797	798	797	77
15°	769	749	702	675	664	217
25°	686	635	557	505	486	315
35°	573	496	393	324	300	358
45°	442	348	230	146	116	340
55°	299	205	84	57	54	266
65°	148	76	32	27	25	146
75°	19	12	10	10	10	29
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.8	814.8	814.8	814.8	814.8
2.5°	813.8	813.8	807.6	814.8	814.8
5°	810.7	808.6	797.2	798.3	797.2
7.5°	804.5	800.3	780.7	775.5	771.3
10°	795.2	786.9	757.9	745.5	738.2
12.5°	784.8	770.3	731.0	713.4	702.0
15°	769.3	748.6	702.0	675.1	663.7
17.5°	752.7	722.7	667.8	635.7	621.2
20°	732.0	696.8	633.6	594.3	579.8
22.5°	709.2	667.8	594.3	550.8	531.1
25°	686.4	634.7	557.0	505.3	485.6
27.5°	660.6	601.5	514.6	460.7	439.0
30°	631.6	568.4	475.2	419.3	391.4
32.5°	602.6	534.2	433.8	372.7	344.8
35°	572.6	495.9	393.4	324.1	300.3
37.5°	540.5	459.7	352.0	279.5	251.6
40°	509.4	423.5	310.6	234.0	208.1
42.5°	476.3	387.2	269.2	189.5	160.5
45°	442.1	347.9	229.9	146.0	116.0
47.5°	406.9	312.7	190.5	107.7	87.0
50°	371.7	275.4	153.2	79.7	72.5
52.5°	335.5	239.2	116.0	66.3	63.2
55°	299.2	205.0	83.9	56.9	53.8
57.5°	261.9	167.7	63.2	48.7	45.6
60°	221.6	134.6	49.7	40.4	37.3
62.5°	184.3	105.6	40.4	33.1	31.1
65°	148.1	75.6	32.1	26.9	24.8
67.5°	110.8	50.7	24.8	20.7	20.7
70°	75.6	33.1	18.6	16.6	16.6
72.5°	45.6	19.7	13.5	13.5	13.5
75°	18.6	12.4	10.4	10.4	10.4
77.5°	6.2	7.2	7.2	8.3	8.3
80°	4.1	4.1	5.2	6.2	6.2
82.5°	2.1	3.1	3.1	4.1	4.1
85°	1.0	1.0	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	1.0	1.0
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	15.32	16.65	15.69	16.96	17.28	5.98	7.31	6.35	7.63	7.94
	3H	16.03	17.20	16.41	17.53	17.90	6.76	7.94	7.14	8.27	8.63
	4H	16.04	17.14	16.45	17.49	17.87	7.01	8.11	7.42	8.46	8.84
	6H	15.97	16.98	16.39	17.35	17.74	7.19	8.20	7.61	8.57	8.96
	8H	15.93	16.88	16.36	17.27	17.68	7.24	8.19	7.67	8.58	8.98
	12H	15.89	16.80	16.32	17.18	17.61	7.24	8.15	7.68	8.54	8.97
4H	2H	15.15	16.25	15.55	16.60	16.98	6.47	7.56	6.87	7.92	8.30
	3H	15.90	16.79	16.31	17.19	17.60	7.38	8.27	7.79	8.67	9.08
	4H	15.92	16.71	16.35	17.13	17.57	7.69	8.49	8.13	8.91	9.35
	6H	15.85	16.54	16.32	16.98	17.45	7.95	8.64	8.41	9.08	9.55
	8H	15.80	16.44	16.27	16.89	17.36	8.01	8.65	8.48	9.10	9.57
	12H	15.76	16.32	16.24	16.80	17.28	8.04	8.60	8.53	9.09	9.56
8H	4H	15.80	16.44	16.27	16.88	17.35	7.80	8.44	8.27	8.89	9.36
	6H	15.72	16.24	16.22	16.74	17.22	8.12	8.64	8.62	9.14	9.62
	8H	15.67	16.13	16.19	16.65	17.14	8.22	8.69	8.75	9.21	9.70
	12H	15.63	16.04	16.14	16.53	17.11	8.29	8.70	8.80	9.19	9.76
12H	4H	15.75	16.32	16.24	16.80	17.27	7.78	8.34	8.26	8.82	9.30
	6H	15.66	16.13	16.19	16.65	17.14	8.09	8.56	8.61	9.07	9.57
	8H	15.63	16.04	16.14	16.54	17.11	8.23	8.64	8.74	9.14	9.71