

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: P1061979

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE 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

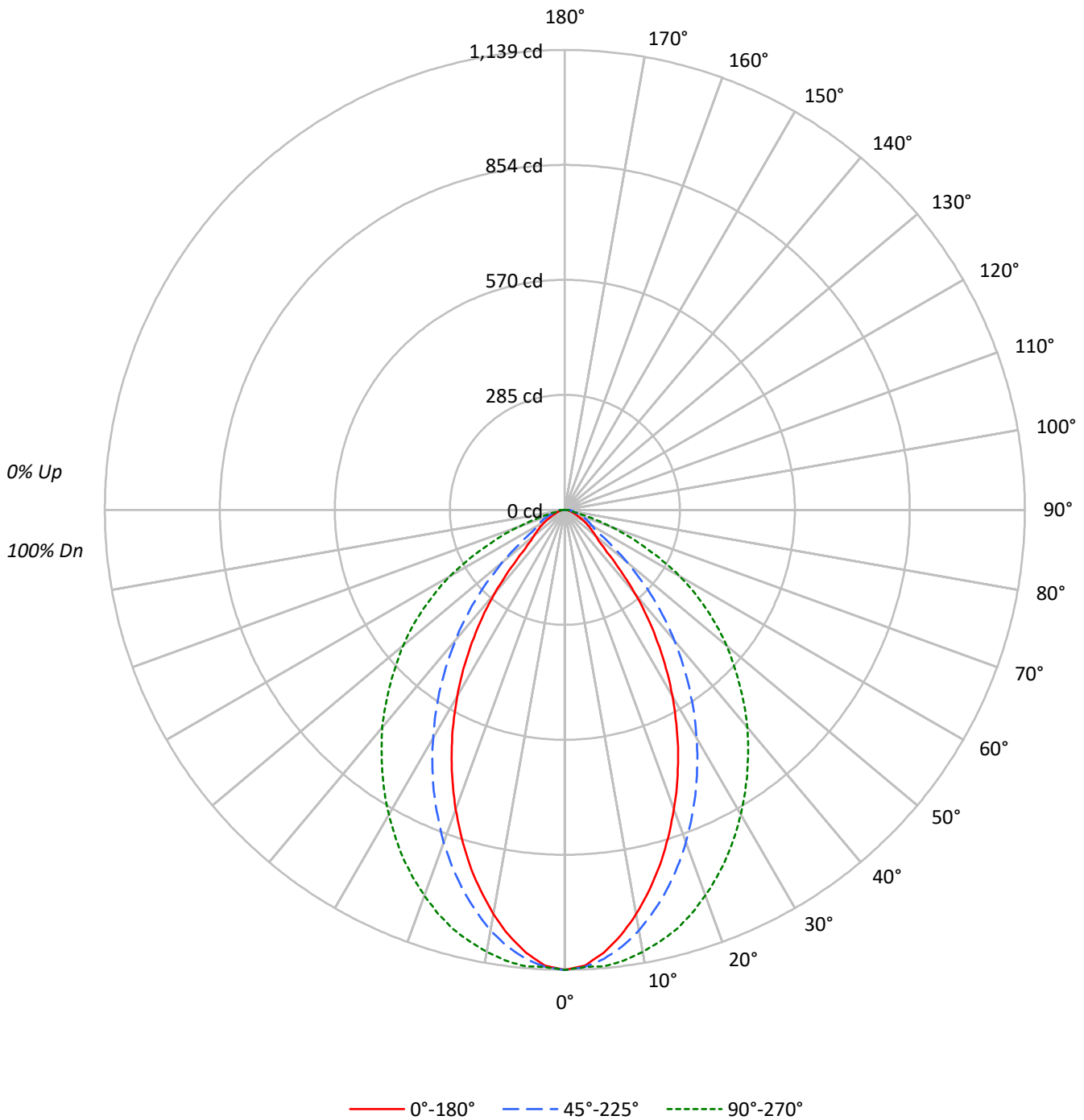
Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 45.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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									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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89																												
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																												
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56																												
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7843	7843	7843
5°	7614	7714	7840
10°	7109	7397	7770
15°	6489	6946	7653
20°	5783	6421	7450
25°	5040	5831	7210
30°	4234	5188	6930
35°	3368	4508	6624
40°	2426	3787	6321
45°	1438	3006	5952
50°	1064	2139	5601
55°	902	1323	5129
60°	734	1067	4518
65°	572	986	3570
70°	487	854	2388
75°	450	740	966
80°	480	769	670
85°	577	1145	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	6.4
10°-20°	275.7	16.7
20°-30°	360.4	21.8
30°-40°	351.1	21.3
40°-50°	263.3	16.0
50°-60°	165.1	10.0
60°-70°	85.9	5.2
70°-80°	31.1	1.9
80°-90°	12.3	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°	741.1	44.9
0°-40°	1092.2	66.2
0°-60°	1520.6	92.2
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1102	1116	1116	1125	1134	102
15°	910	937	974	1035	1074	254
25°	663	700	768	872	949	303
35°	401	443	536	679	788	249
45°	148	191	309	477	611	124
55°	75	79	110	288	427	67
65°	35	38	60	116	219	36
75°	17	23	28	29	36	19
85°	7	12	14	13	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1129.4	1140.3	1133.1	1133.1	1133.1
5°	1101.6	1116.1	1116.1	1124.6	1134.3
7.5°	1062.8	1079.8	1090.7	1111.3	1125.8
10°	1016.8	1037.4	1058.0	1091.9	1111.3
12.5°	964.8	989.0	1018.1	1065.3	1094.3
15°	910.3	936.9	974.5	1035.0	1073.7
17.5°	851.0	882.5	927.3	999.9	1047.1
20°	789.3	820.7	876.4	958.7	1016.8
22.5°	727.5	761.4	821.9	915.2	984.2
25°	663.4	699.7	767.5	871.6	949.1
27.5°	598.0	635.5	710.6	826.8	910.3
30°	532.6	571.4	652.5	778.4	871.6
32.5°	467.3	508.4	594.4	728.7	830.4
35°	400.7	443.1	536.3	679.1	788.1
37.5°	336.5	378.9	478.2	628.3	745.7
40°	269.9	315.9	421.3	577.4	703.3
42.5°	204.6	251.8	364.4	526.6	657.3
45°	147.7	191.3	308.7	476.9	611.3
47.5°	113.8	138.0	251.8	426.1	566.5
50°	99.3	106.5	199.7	378.9	522.9
52.5°	85.9	90.8	150.1	335.3	475.7
55°	75.1	78.7	110.2	288.1	427.3
57.5°	62.9	67.8	87.2	242.1	377.7
60°	53.3	55.7	77.5	199.7	328.1
62.5°	43.6	46.0	69.0	157.4	272.4
65°	35.1	37.5	60.5	116.2	219.1
67.5°	29.1	30.3	50.8	82.3	168.3
70°	24.2	25.4	42.4	56.9	118.6
72.5°	20.6	24.2	33.9	41.2	75.1
75°	16.9	23.0	27.8	29.1	36.3
77.5°	14.5	21.8	23.0	23.0	20.6
80°	12.1	18.2	19.4	18.2	16.9
82.5°	9.7	14.5	15.7	15.7	13.3
85°	7.3	12.1	14.5	13.3	9.7
87.5°	4.8	10.9	12.1	10.9	7.3
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	7.07	8.43	7.44	8.74	9.05	16.69	18.04	17.05	18.35	18.67
	3H	7.93	9.13	8.31	9.46	9.83	17.53	18.73	17.91	19.06	19.42
	4H	8.36	9.47	8.76	9.82	10.21	17.60	18.72	18.00	19.07	19.45
	6H	8.78	9.81	9.20	10.18	10.58	17.58	18.61	18.00	18.98	19.38
	8H	8.96	9.94	9.39	10.33	10.73	17.57	18.55	18.00	18.94	19.34
	12H	9.13	10.06	9.56	10.44	10.87	17.56	18.49	17.99	18.87	19.31
4H	2H	8.04	9.15	8.44	9.51	9.89	16.55	17.67	16.95	18.02	18.40
	3H	9.09	10.01	9.50	10.41	10.81	17.46	18.38	17.87	18.78	19.18
	4H	9.65	10.47	10.09	10.89	11.33	17.56	18.38	18.00	18.80	19.24
	6H	10.25	10.96	10.71	11.40	11.87	17.59	18.30	18.05	18.74	19.21
	8H	10.49	11.15	10.96	11.60	12.07	17.59	18.25	18.06	18.70	19.17
	12H	10.72	11.30	11.20	11.78	12.26	17.60	18.19	18.09	18.67	19.14
8H	4H	10.12	10.78	10.59	11.23	11.70	17.49	18.15	17.96	18.59	19.06
	6H	10.94	11.48	11.44	11.97	12.45	17.54	18.08	18.04	18.58	19.06
	8H	11.32	11.80	11.84	12.32	12.81	17.57	18.06	18.09	18.57	19.07
	12H	11.71	12.14	12.22	12.63	13.20	17.64	18.07	18.15	18.56	19.13
12H	4H	10.17	10.76	10.66	11.24	11.72	17.45	18.04	17.94	18.52	18.99
	6H	11.06	11.55	11.58	12.06	12.55	17.51	17.99	18.03	18.51	19.00
	8H	11.55	11.98	12.06	12.47	13.04	17.58	18.01	18.09	18.50	19.07