

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: P1175407

Luminaire Tested: S125RDRP-H1270D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

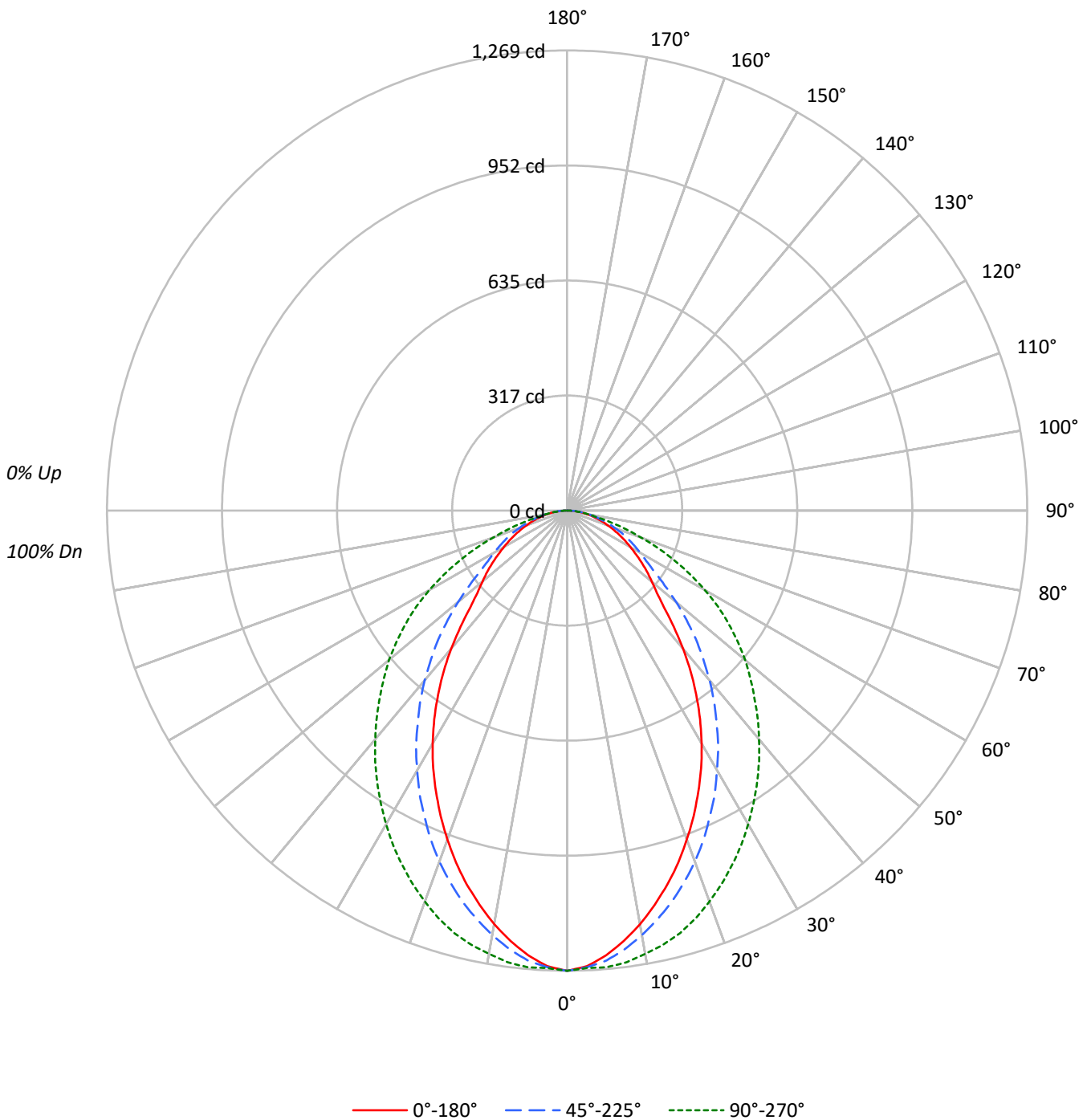
Lumens per Lamp: N/A
Luminaire Lumens: 2391.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8739	8739	8739
5°	8512	8608	8735
10°	8098	8309	8677
15°	7611	7956	8594
20°	7073	7547	8407
25°	6498	7072	8185
30°	5893	6570	7940
35°	5216	6040	7679
40°	4474	5491	7398
45°	3672	4889	7113
50°	3266	4201	6866
55°	3013	3517	6518
60°	2775	3204	6038
65°	2581	3019	5336
70°	2408	2820	4360
75°	2264	2607	3267
80°	2137	2391	2351
85°	1959	2386	1959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7113 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	4.9
10°-20°	316.7	13.2
20°-30°	435.7	18.2
30°-40°	462.1	19.3
40°-50°	404.5	16.9
50°-60°	310.4	13.0
60°-70°	206.7	8.6
70°-80°	106.0	4.4
80°-90°	31.5	1.3
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°	869.9	36.4
0°-40°	1332.0	55.7
0°-60°	2046.8	85.6
0°-90°	2391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1232	1248	1246	1254	1264	115
15°	1068	1092	1116	1169	1206	299
25°	855	884	931	1010	1077	393
35°	621	650	719	824	914	387
45°	377	408	502	627	730	298
55°	251	256	293	435	543	225
65°	158	160	185	244	328	158
75°	85	90	98	103	123	91
85°	25	28	30	29	25	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1257.3	1270.2	1260.5	1261.6	1262.7
5°	1231.5	1247.6	1245.5	1254.1	1263.8
7.5°	1197.0	1214.2	1219.6	1241.1	1256.2
10°	1158.2	1177.6	1188.4	1220.7	1241.1
12.5°	1114.0	1136.6	1153.9	1195.9	1226.1
15°	1067.7	1092.5	1116.2	1169.0	1205.6
17.5°	1018.1	1042.9	1074.2	1134.5	1178.7
20°	965.3	992.3	1030.0	1094.6	1147.4
22.5°	911.5	939.5	982.6	1053.7	1114.0
25°	855.4	884.5	930.9	1009.5	1077.4
27.5°	800.5	827.4	881.3	965.3	1039.7
30°	741.2	769.3	826.4	919.0	998.7
32.5°	682.0	710.0	775.7	872.7	956.7
35°	620.6	649.7	718.6	824.2	913.6
37.5°	559.2	589.3	665.8	774.6	869.5
40°	497.8	530.1	610.9	725.1	823.1
42.5°	435.3	469.7	554.9	676.6	777.9
45°	377.1	408.3	502.1	627.0	730.5
47.5°	335.1	353.4	446.0	576.4	685.2
50°	304.9	313.5	392.2	527.9	641.0
52.5°	278.0	283.4	339.4	482.7	592.6
55°	251.0	256.4	293.0	435.3	543.0
57.5°	225.2	228.4	258.6	387.9	493.4
60°	201.5	203.6	232.7	340.5	438.5
62.5°	179.9	181.0	207.9	292.0	383.5
65°	158.4	159.5	185.3	243.5	327.5
67.5°	139.0	139.0	163.8	199.3	273.7
70°	119.6	119.6	140.1	161.6	216.6
72.5°	102.4	104.5	118.5	130.4	169.1
75°	85.1	90.5	98.0	103.4	122.8
77.5°	69.0	75.4	78.6	80.8	81.9
80°	53.9	58.2	60.3	61.4	59.3
82.5°	39.9	43.1	44.2	44.2	40.9
85°	24.8	28.0	30.2	29.1	24.8
87.5°	11.9	16.2	17.2	15.1	11.9
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	14.15	15.65	14.51	15.96	16.27	18.17	19.67	18.54	19.98	20.30
	3H	15.73	17.08	16.11	17.41	17.77	19.56	20.90	19.94	21.23	21.59
	4H	16.38	17.64	16.78	17.99	18.37	19.97	21.23	20.37	21.57	21.95
	6H	16.89	18.05	17.30	18.42	18.81	20.17	21.34	20.58	21.70	22.09
	8H	17.07	18.18	17.49	18.57	18.97	20.23	21.34	20.66	21.73	22.13
	12H	17.19	18.25	17.62	18.64	19.07	20.26	21.32	20.69	21.70	22.13
4H	2H	14.92	16.18	15.32	16.53	16.90	18.30	19.56	18.70	19.91	20.29
	3H	16.70	17.75	17.11	18.15	18.55	19.87	20.92	20.28	21.32	21.72
	4H	17.47	18.41	17.90	18.82	19.26	20.38	21.32	20.81	21.74	22.18
	6H	18.11	18.93	18.56	19.37	19.83	20.71	21.53	21.17	21.97	22.43
	8H	18.34	19.10	18.80	19.55	20.01	20.81	21.57	21.27	22.02	22.48
	12H	18.51	19.19	18.99	19.67	20.14	20.88	21.56	21.36	22.04	22.51
8H	4H	17.85	18.62	18.31	19.06	19.53	20.48	21.25	20.95	21.69	22.16
	6H	18.63	19.26	19.12	19.75	20.23	20.90	21.53	21.40	22.02	22.50
	8H	18.94	19.51	19.46	20.02	20.51	21.06	21.63	21.57	22.14	22.63
	12H	19.21	19.71	19.72	20.20	20.77	21.20	21.70	21.71	22.19	22.76
12H	4H	17.89	18.57	18.37	19.05	19.52	20.48	21.16	20.96	21.64	22.11
	6H	18.70	19.27	19.22	19.78	20.27	20.91	21.48	21.43	21.99	22.48
	8H	19.09	19.59	19.60	20.08	20.65	21.12	21.62	21.63	22.12	22.68