

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: P1175409

Luminaire Tested: S125RDRP-H1270D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175409
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-H1270D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

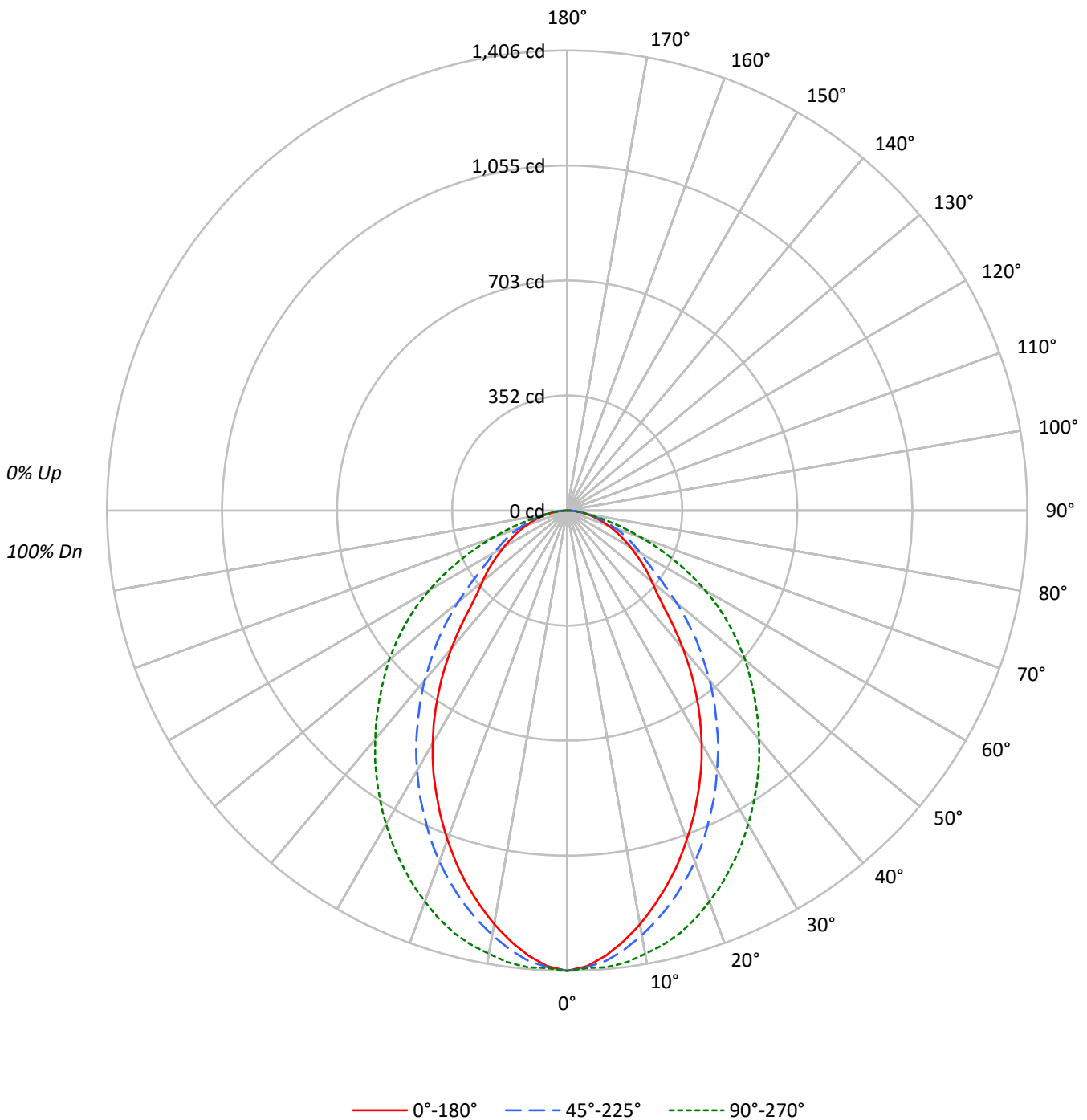
Lumens per Lamp: N/A
Luminaire Lumens: 2649.3 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9683	9683	9683
5°	9431	9538	9678
10°	8972	9206	9615
15°	8433	8815	9522
20°	7837	8362	9316
25°	7200	7836	9069
30°	6530	7279	8798
35°	5780	6692	8509
40°	4957	6084	8197
45°	4068	5417	7881
50°	3618	4654	7608
55°	3338	3898	7223
60°	3074	3551	6691
65°	2859	3345	5912
70°	2667	3124	4829
75°	2509	2889	3621
80°	2367	2653	2605
85°	2172	2639	2172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7881 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	4.9
10°-20°	350.9	13.2
20°-30°	482.8	18.2
30°-40°	512.0	19.3
40°-50°	448.2	16.9
50°-60°	343.9	13.0
60°-70°	229.1	8.6
70°-80°	117.4	4.4
80°-90°	34.9	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°	963.9	36.4
0°-40°	1475.9	55.7
0°-60°	2267.9	85.6
0°-90°	2649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1364	1382	1380	1390	1400	128
15°	1183	1210	1237	1295	1336	332
25°	948	980	1031	1119	1194	435
35°	688	720	796	913	1012	428
45°	418	452	556	695	809	330
55°	278	284	325	482	602	249
65°	176	177	205	270	363	175
75°	94	100	109	115	136	100
85°	28	31	33	32	28	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1393.1	1407.4	1396.7	1397.9	1399.1
5°	1364.5	1382.4	1380.0	1389.5	1400.3
7.5°	1326.3	1345.4	1351.3	1375.2	1391.9
10°	1283.3	1304.8	1316.7	1352.5	1375.2
12.5°	1234.4	1259.4	1278.5	1325.1	1358.5
15°	1183.0	1210.5	1236.7	1295.2	1335.8
17.5°	1128.1	1155.6	1190.2	1257.0	1306.0
20°	1069.6	1099.5	1141.2	1212.9	1271.4
22.5°	1009.9	1041.0	1088.7	1167.5	1234.4
25°	947.8	980.1	1031.4	1118.6	1193.8
27.5°	887.0	916.8	976.5	1069.6	1152.0
30°	821.3	852.3	915.6	1018.3	1106.6
32.5°	755.7	786.7	859.5	966.9	1060.1
35°	687.6	719.8	796.2	913.2	1012.3
37.5°	619.6	653.0	737.7	858.3	963.4
40°	551.5	587.3	676.9	803.4	912.0
42.5°	482.3	520.5	614.8	749.7	861.9
45°	417.8	452.4	556.3	694.8	809.4
47.5°	371.3	391.6	494.2	638.7	759.2
50°	337.8	347.4	434.5	584.9	710.3
52.5°	308.0	314.0	376.0	534.8	656.6
55°	278.1	284.1	324.7	482.3	601.7
57.5°	249.5	253.1	286.5	429.8	546.7
60°	223.2	225.6	257.9	377.2	485.9
62.5°	199.4	200.6	230.4	323.5	425.0
65°	175.5	176.7	205.3	269.8	362.9
67.5°	154.0	154.0	181.5	220.8	303.2
70°	132.5	132.5	155.2	179.1	239.9
72.5°	113.4	115.8	131.3	144.4	187.4
75°	94.3	100.3	108.6	114.6	136.1
77.5°	76.4	83.6	87.1	89.5	90.7
80°	59.7	64.5	66.9	68.0	65.7
82.5°	44.2	47.8	48.9	48.9	45.4
85°	27.5	31.0	33.4	32.2	27.5
87.5°	13.1	17.9	19.1	16.7	13.1
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	14.50	16.00	14.87	16.32	16.63	18.53	20.03	18.89	20.34	20.66
	3H	16.09	17.43	16.47	17.76	18.12	19.92	21.26	20.29	21.59	21.95
	4H	16.73	17.99	17.13	18.34	18.72	20.32	21.58	20.72	21.93	22.31
	6H	17.24	18.41	17.66	18.77	19.17	20.53	21.69	20.94	22.06	22.45
	8H	17.42	18.53	17.85	18.92	19.32	20.58	21.69	21.01	22.08	22.48
	12H	17.55	18.61	17.98	18.99	19.42	20.62	21.68	21.05	22.06	22.49
4H	2H	15.27	16.53	15.67	16.88	17.26	18.66	19.92	19.06	20.27	20.65
	3H	17.05	18.10	17.47	18.50	18.90	20.23	21.27	20.64	21.67	22.08
	4H	17.82	18.76	18.26	19.18	19.62	20.74	21.68	21.17	22.09	22.53
	6H	18.46	19.28	18.92	19.73	20.19	21.06	21.88	21.52	22.33	22.79
	8H	18.69	19.46	19.16	19.90	20.37	21.16	21.93	21.63	22.37	22.84
	12H	18.87	19.55	19.35	20.03	20.50	21.24	21.92	21.72	22.40	22.87
8H	4H	18.21	18.97	18.67	19.42	19.88	20.84	21.60	21.30	22.05	22.52
	6H	18.98	19.62	19.48	20.11	20.59	21.26	21.89	21.75	22.38	22.86
	8H	19.30	19.87	19.82	20.38	20.87	21.42	21.98	21.93	22.49	22.98
	12H	19.56	20.06	20.07	20.56	21.12	21.55	22.06	22.06	22.55	23.11
12H	4H	18.25	18.93	18.73	19.41	19.88	20.84	21.52	21.32	22.00	22.47
	6H	19.06	19.63	19.57	20.14	20.63	21.27	21.84	21.78	22.35	22.84
	8H	19.44	19.94	19.95	20.44	21.00	21.48	21.98	21.99	22.47	23.04