

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: P1175409

Luminaire Tested: S125RDR-H1270D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

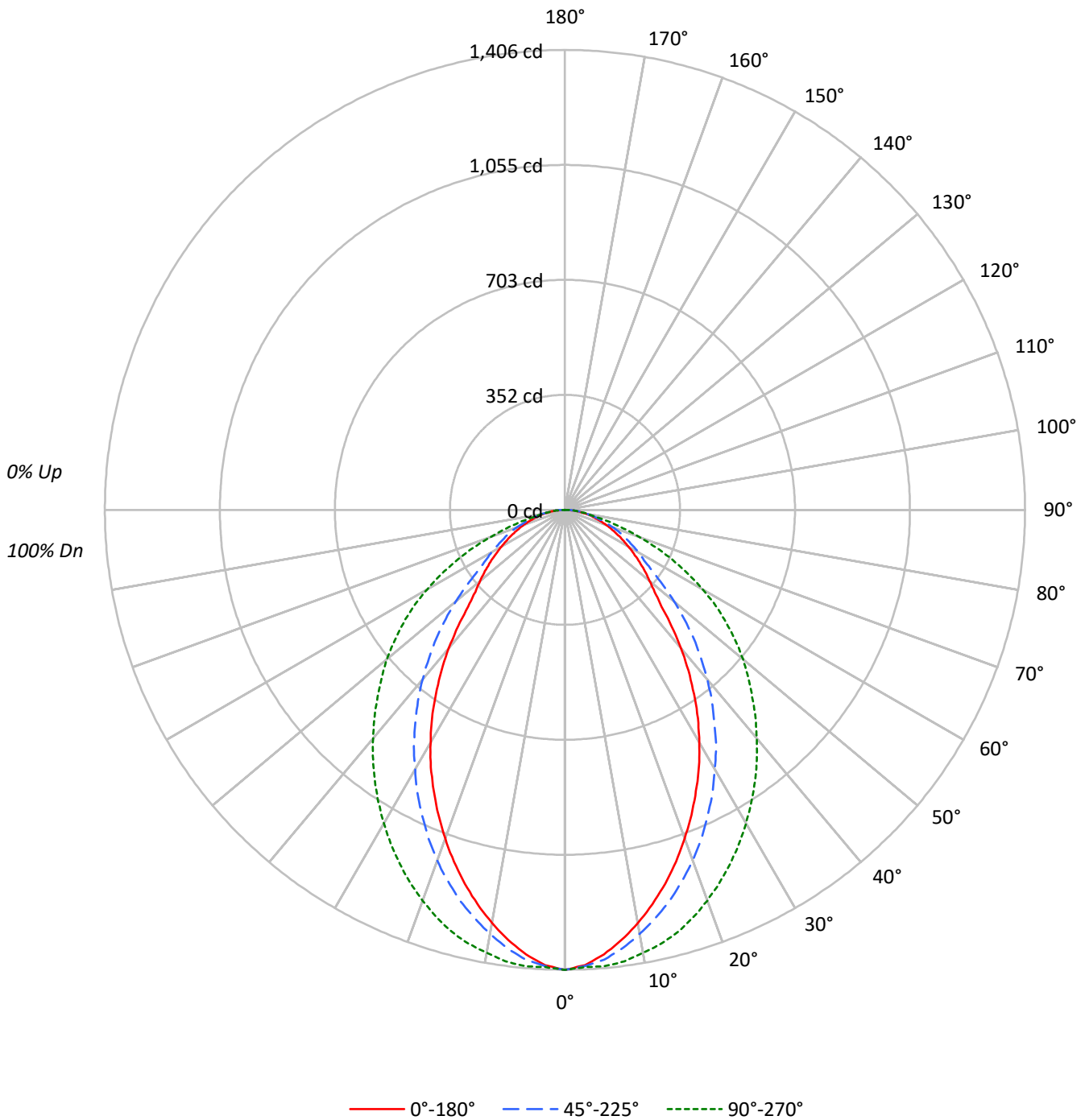
Lumens per Lamp: N/A
Luminaire Lumens: 2649.3 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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				
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

(END OF REPORT)