

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: P1061589

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

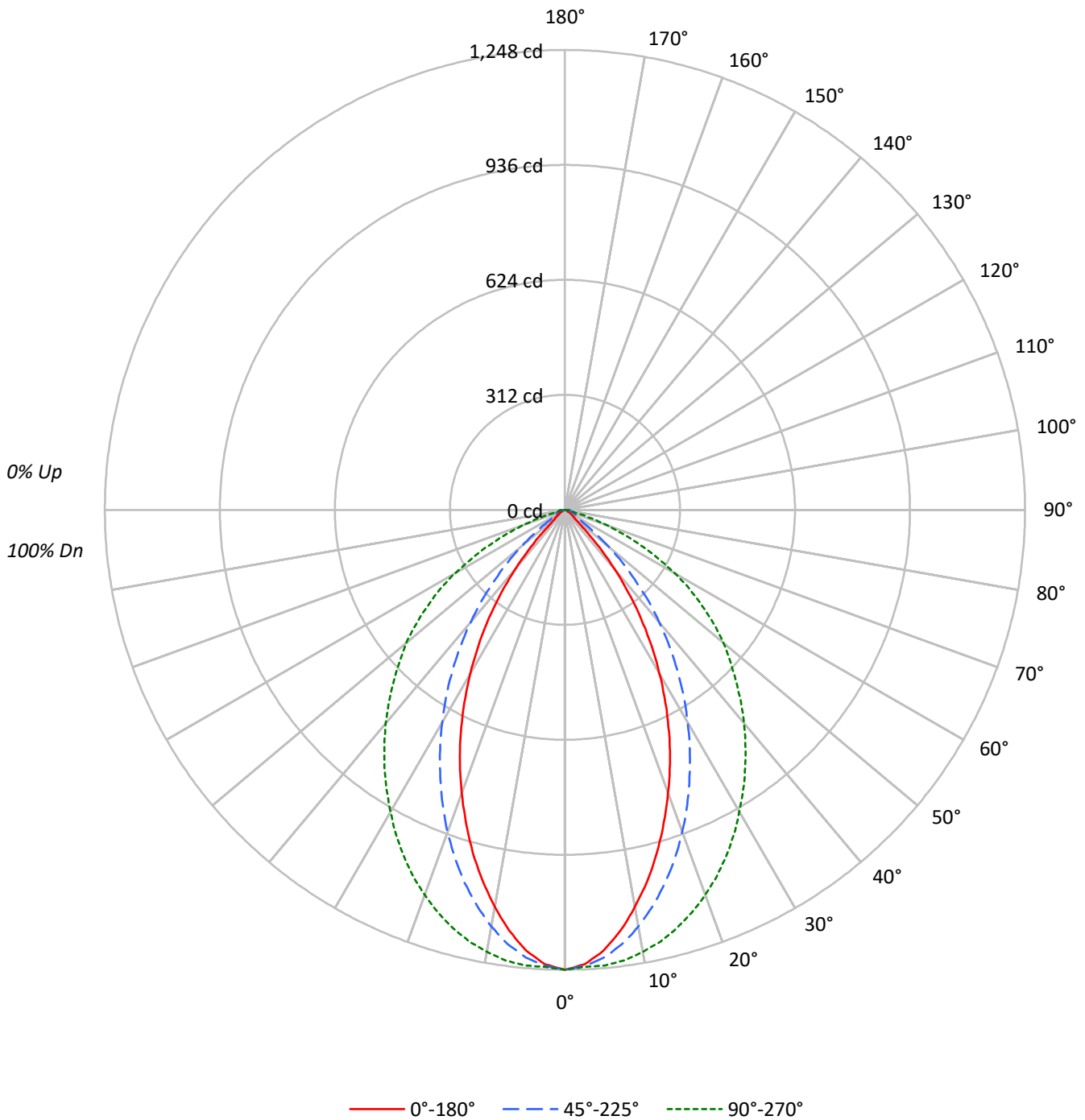
Lumens per Lamp: N/A
Luminaire Lumens: 1614.8 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8593	8593	8593
5°	8301	8425	8579
10°	7650	8028	8513
15°	6870	7473	8373
20°	5995	6818	8149
25°	5078	6079	7870
30°	4079	5293	7519
35°	3019	4464	7169
40°	1870	3565	6793
45°	729	2606	6387
50°	342	1634	6016
55°	250	699	5461
60°	172	497	4736
65°	112	520	3682
70°	111	475	2317
75°	146	479	737
80°	218	551	496
85°	332	1098	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	7.1
10°-20°	296.6	18.4
20°-30°	377.7	23.4
30°-40°	351.6	21.8
40°-50°	242.0	15.0
50°-60°	137.0	8.5
60°-70°	64.7	4.0
70°-80°	20.2	1.3
80°-90°	10.6	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°	788.7	48.8
0°-40°	1140.3	70.6
0°-60°	1519.3	94.1
0°-90°	1614.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1614.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1201	1218	1219	1230	1241	111
15°	964	996	1048	1128	1175	268
25°	668	711	800	935	1036	305
35°	359	409	531	713	853	222
45°	75	119	268	484	656	70
55°	21	24	58	279	455	19
65°	7	8	32	100	226	8
75°	6	12	18	19	28	6
85°	4	11	14	12	10	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.1	1248.1	1248.1	1248.1	1248.1
2.5°	1234.2	1246.7	1238.4	1239.8	1241.2
5°	1201.0	1217.6	1219.0	1230.1	1241.2
7.5°	1152.4	1173.2	1188.5	1214.8	1232.9
10°	1094.2	1119.1	1148.3	1191.2	1217.6
12.5°	1031.8	1060.9	1101.1	1162.1	1199.6
15°	963.8	995.7	1048.4	1127.5	1174.6
17.5°	891.7	927.8	991.6	1085.9	1145.5
20°	818.2	857.0	930.5	1038.7	1112.2
22.5°	744.7	784.9	866.7	987.4	1076.1
25°	668.4	711.4	800.2	934.7	1035.9
27.5°	590.8	635.1	733.6	880.6	992.9
30°	513.1	560.3	665.7	825.1	945.8
32.5°	436.8	484.0	599.1	769.7	900.0
35°	359.2	409.1	531.1	712.8	852.9
37.5°	281.5	335.6	464.6	654.6	804.3
40°	208.0	259.3	396.6	597.7	755.8
42.5°	138.7	188.6	335.6	540.8	705.9
45°	74.9	119.3	267.6	484.0	655.9
47.5°	40.2	63.8	209.4	428.5	607.4
50°	31.9	36.1	152.5	377.2	561.6
52.5°	26.3	29.1	99.8	328.7	509.0
55°	20.8	23.6	58.2	278.7	454.9
57.5°	16.6	19.4	37.4	231.6	402.2
60°	12.5	15.3	36.1	185.8	343.9
62.5°	9.7	11.1	33.3	142.8	282.9
65°	6.9	8.3	31.9	99.8	226.0
67.5°	5.5	6.9	29.1	63.8	169.2
70°	5.5	5.5	23.6	41.6	115.1
72.5°	5.5	9.7	20.8	27.7	69.3
75°	5.5	12.5	18.0	19.4	27.7
77.5°	5.5	13.9	15.3	15.3	15.3
80°	5.5	12.5	13.9	13.9	12.5
82.5°	5.5	11.1	12.5	13.9	11.1
85°	4.2	11.1	13.9	12.5	9.7
87.5°	4.2	11.1	12.5	11.1	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)