

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: P1175400

Luminaire Tested: S125RDR-H1090D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175400
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-H1090D950-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

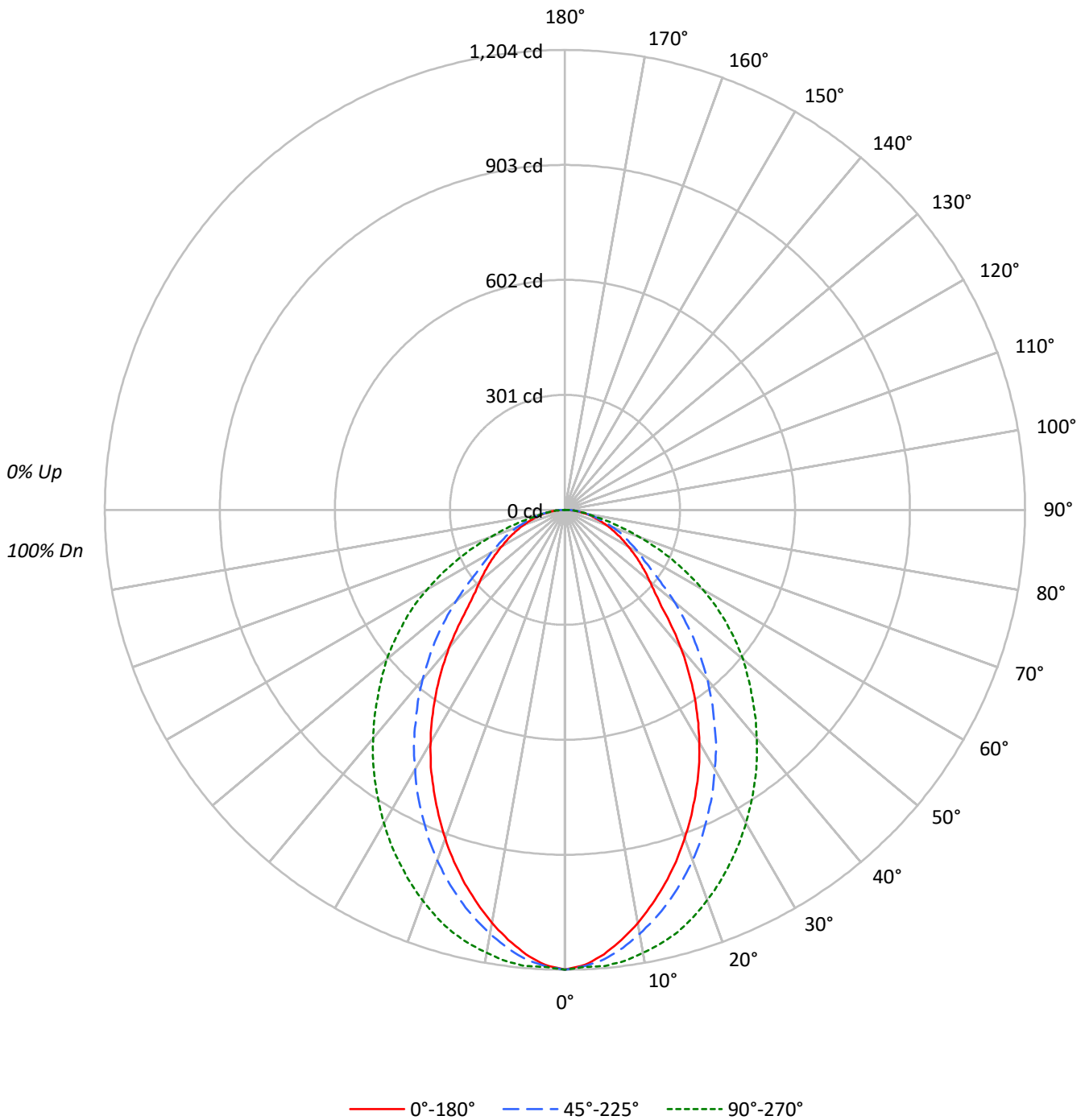
Lumens per Lamp: N/A
Luminaire Lumens: 2267.8 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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				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°	8288	8288	8288
5°	8073	8165	8285
10°	7680	7880	8230
15°	7219	7547	8151
20°	6709	7158	7974
25°	6164	6707	7763
30°	5590	6232	7531
35°	4947	5729	7284
40°	4243	5208	7017
45°	3483	4637	6746
50°	3098	3985	6513
55°	2858	3337	6182
60°	2632	3039	5727
65°	2447	2864	5062
70°	2283	2673	4135
75°	2147	2474	3099
80°	2026	2268	2228
85°	1856	2259	1856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	4.9
10°-20°	300.4	13.2
20°-30°	413.2	18.2
30°-40°	438.3	19.3
40°-50°	383.6	16.9
50°-60°	294.4	13.0
60°-70°	196.1	8.6
70°-80°	100.5	4.4
80°-90°	29.8	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°	825.1	36.4
0°-40°	1263.4	55.7
0°-60°	1941.4	85.6
0°-90°	2267.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1168	1183	1181	1190	1199	109
15°	1013	1036	1059	1109	1144	284
25°	811	839	883	958	1022	373
35°	589	616	682	782	867	367
45°	358	387	476	595	693	282
55°	238	243	278	413	515	213
65°	150	151	176	231	311	150
75°	81	86	93	98	116	86
85°	24	27	29	28	24	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.8	1203.8	1203.8	1203.8	1203.8
2.5°	1192.6	1204.8	1195.6	1196.6	1197.7
5°	1168.0	1183.4	1181.3	1189.5	1198.7
7.5°	1135.3	1151.7	1156.8	1177.2	1191.5
10°	1098.5	1116.9	1127.1	1157.8	1177.2
12.5°	1056.6	1078.1	1094.4	1134.3	1162.9
15°	1012.7	1036.2	1058.7	1108.8	1143.5
17.5°	965.7	989.2	1018.8	1076.1	1118.0
20°	915.6	941.2	976.9	1038.2	1088.3
22.5°	864.5	891.1	932.0	999.4	1056.6
25°	811.4	839.0	882.9	957.5	1021.9
27.5°	759.3	784.8	835.9	915.6	986.1
30°	703.1	729.6	783.8	871.7	947.3
32.5°	646.9	673.4	735.8	827.7	907.4
35°	588.6	616.2	681.6	781.7	866.6
37.5°	530.4	559.0	631.5	734.7	824.7
40°	472.1	502.8	579.4	687.7	780.7
42.5°	412.8	445.5	526.3	641.7	737.8
45°	357.7	387.3	476.2	594.7	692.8
47.5°	317.8	335.2	423.1	546.7	649.9
50°	289.2	297.4	372.0	500.7	608.0
52.5°	263.6	268.8	321.9	457.8	562.0
55°	238.1	243.2	278.0	412.8	515.0
57.5°	213.6	216.6	245.3	367.9	468.0
60°	191.1	193.1	220.7	322.9	415.9
62.5°	170.7	171.7	197.2	276.9	363.8
65°	150.2	151.2	175.8	230.9	310.7
67.5°	131.8	131.8	155.3	189.1	259.6
70°	113.4	113.4	132.8	153.3	205.4
72.5°	97.1	99.1	112.4	123.6	160.4
75°	80.7	85.8	93.0	98.1	116.5
77.5°	65.4	71.5	74.6	76.6	77.7
80°	51.1	55.2	57.2	58.2	56.2
82.5°	37.8	40.9	41.9	41.9	38.8
85°	23.5	26.6	28.6	27.6	23.5
87.5°	11.2	15.3	16.4	14.3	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)