

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: P1175400

Luminaire Tested: S125RDRP-H1090D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

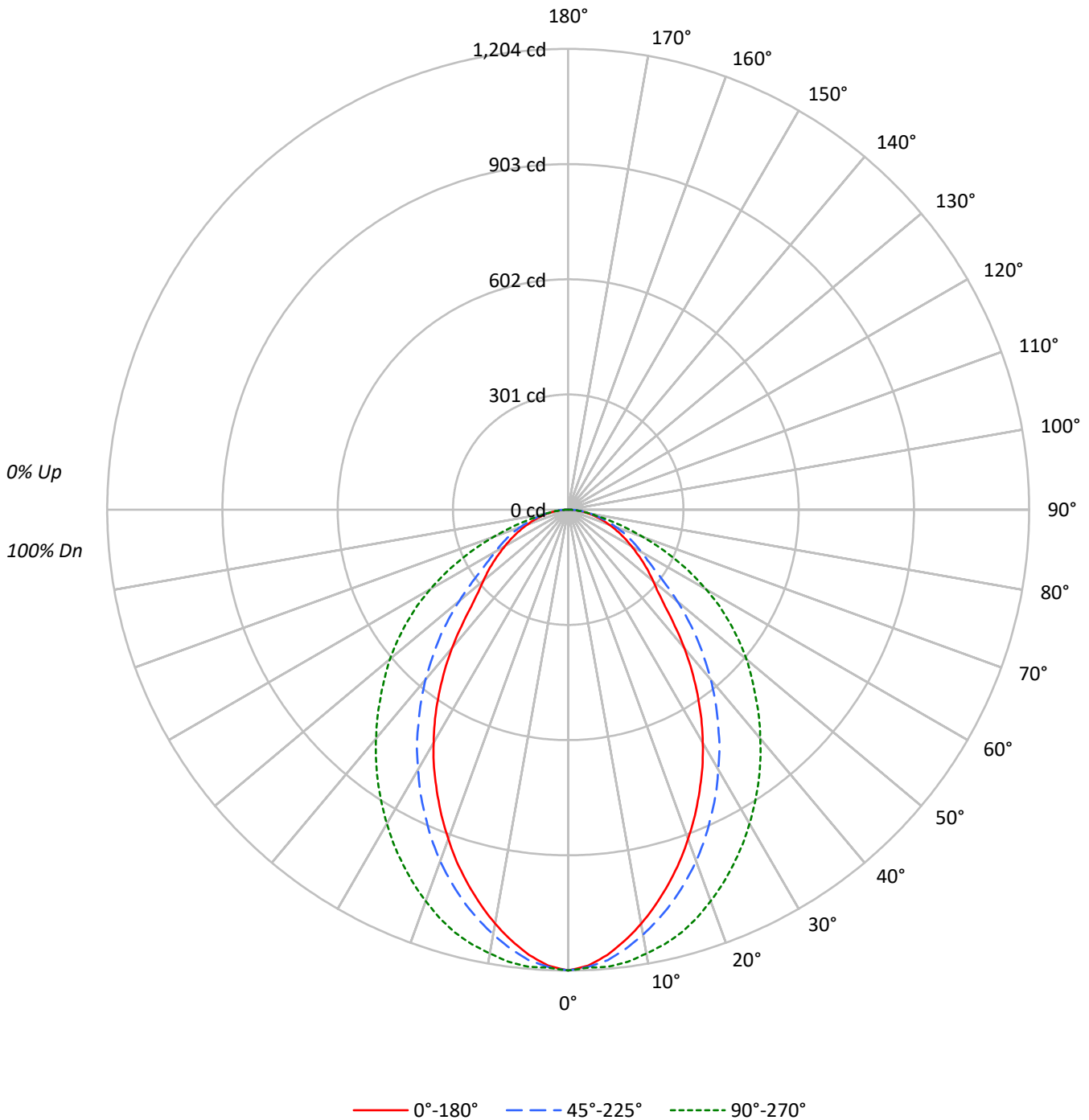
Lumens per Lamp: N/A
Luminaire Lumens: 2267.8 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (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	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°	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



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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	13.96	15.46	14.33	15.77	16.09	17.99	19.49	18.35	19.80	20.12
	3H	15.55	16.89	15.93	17.22	17.58	19.38	20.72	19.75	21.05	21.41
	4H	16.19	17.45	16.59	17.80	18.18	19.78	21.04	20.18	21.39	21.77
	6H	16.70	17.87	17.11	18.23	18.62	19.99	21.15	20.40	21.52	21.91
	8H	16.88	17.99	17.31	18.38	18.78	20.04	21.15	20.47	21.54	21.94
	12H	17.01	18.07	17.44	18.45	18.88	20.08	21.14	20.51	21.52	21.95
4H	2H	14.73	15.99	15.13	16.34	16.72	18.12	19.38	18.52	19.73	20.11
	3H	16.51	17.56	16.92	17.96	18.36	19.69	20.73	20.10	21.13	21.54
	4H	17.28	18.22	17.71	18.64	19.08	20.20	21.14	20.63	21.56	21.99
	6H	17.92	18.74	18.38	19.18	19.64	20.52	21.34	20.98	21.79	22.25
	8H	18.15	18.92	18.62	19.36	19.83	20.62	21.39	21.09	21.83	22.30
	12H	18.32	19.01	18.81	19.49	19.96	20.70	21.38	21.18	21.86	22.33
8H	4H	17.67	18.43	18.13	18.88	19.34	20.30	21.06	20.76	21.51	21.98
	6H	18.44	19.08	18.94	19.57	20.04	20.72	21.35	21.21	21.84	22.32
	8H	18.76	19.33	19.27	19.84	20.33	20.88	21.44	21.39	21.95	22.44
	12H	19.02	19.52	19.53	20.02	20.58	21.01	21.52	21.52	22.01	22.57
12H	4H	17.70	18.39	18.19	18.87	19.34	20.30	20.98	20.78	21.46	21.93
	6H	18.52	19.09	19.03	19.60	20.08	20.73	21.30	21.24	21.81	22.30
	8H	18.90	19.40	19.41	19.90	20.46	20.94	21.44	21.45	21.93	22.50