

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: P1175381

Luminaire Tested: S125RDRP-S610D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175381
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-S610D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

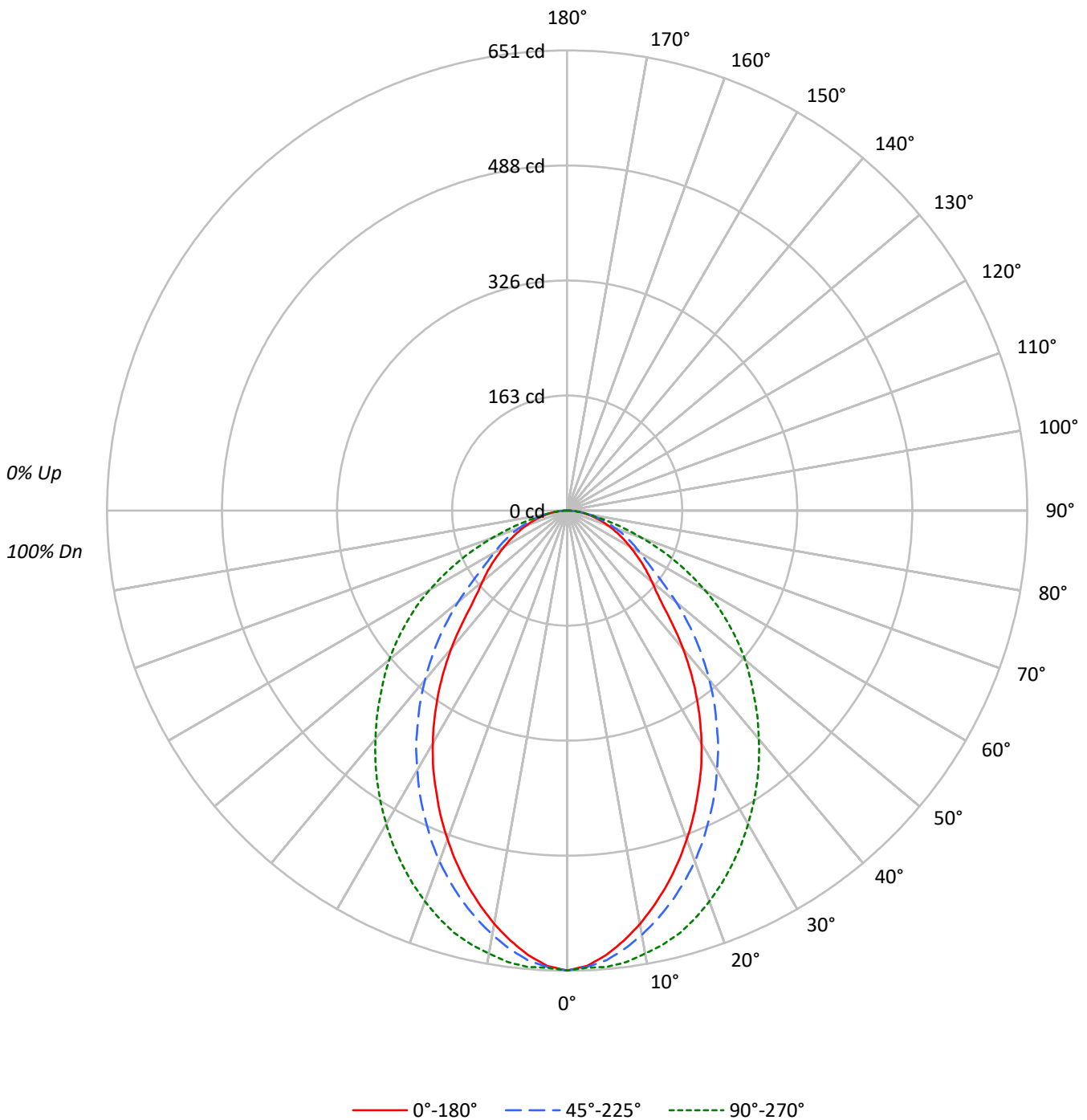
Lumens per Lamp: N/A
Luminaire Lumens: 1225.8 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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°	4480	4480	4480
5°	4363	4413	4478
10°	4152	4259	4449
15°	3902	4079	4406
20°	3626	3869	4310
25°	3331	3625	4196
30°	3021	3368	4071
35°	2674	3097	3937
40°	2294	2815	3793
45°	1882	2506	3647
50°	1674	2153	3520
55°	1545	1803	3342
60°	1422	1643	3096
65°	1323	1548	2735
70°	1234	1445	2235
75°	1160	1338	1676
80°	1094	1225	1205
85°	1003	1224	1003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3647 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	4.9
10°-20°	162.4	13.2
20°-30°	223.4	18.2
30°-40°	236.9	19.3
40°-50°	207.4	16.9
50°-60°	159.1	13.0
60°-70°	106.0	8.6
70°-80°	54.3	4.4
80°-90°	16.1	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°	446.0	36.4
0°-40°	682.9	55.7
0°-60°	1049.3	85.6
0°-90°	1225.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	631	640	638	643	648	59
15°	547	560	572	599	618	153
25°	438	454	477	518	552	201
35°	318	333	368	422	468	198
45°	193	209	257	322	374	153
55°	129	132	150	223	278	115
65°	81	82	95	125	168	81
75°	44	46	50	53	63	46
85°	13	14	16	15	13	14
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.6	650.6	650.6	650.6	650.6
2.5°	644.6	651.2	646.2	646.8	647.3
5°	631.3	639.6	638.5	642.9	647.9
7.5°	613.6	622.5	625.2	636.3	644.0
10°	593.8	603.7	609.2	625.8	636.3
12.5°	571.1	582.7	591.5	613.1	628.5
15°	547.4	560.1	572.2	599.3	618.1
17.5°	521.9	534.7	550.7	581.6	604.2
20°	494.9	508.7	528.0	561.2	588.2
22.5°	467.3	481.6	503.7	540.2	571.1
25°	438.5	453.5	477.2	517.5	552.3
27.5°	410.4	424.2	451.8	494.9	533.0
30°	380.0	394.4	423.6	471.1	512.0
32.5°	349.6	364.0	397.7	447.4	490.5
35°	318.1	333.1	368.4	422.5	468.4
37.5°	286.7	302.1	341.3	397.1	445.7
40°	255.2	271.7	313.2	371.7	422.0
42.5°	223.1	240.8	284.4	346.9	398.8
45°	193.3	209.3	257.4	321.5	374.5
47.5°	171.8	181.2	228.7	295.5	351.3
50°	156.3	160.7	201.0	270.6	328.6
52.5°	142.5	145.3	174.0	247.4	303.8
55°	128.7	131.5	150.2	223.1	278.4
57.5°	115.4	117.1	132.6	198.8	253.0
60°	103.3	104.4	119.3	174.5	224.8
62.5°	92.2	92.8	106.6	149.7	196.6
65°	81.2	81.7	95.0	124.8	167.9
67.5°	71.3	71.3	84.0	102.2	140.3
70°	61.3	61.3	71.8	82.8	111.0
72.5°	52.5	53.6	60.8	66.8	86.7
75°	43.6	46.4	50.3	53.0	63.0
77.5°	35.3	38.7	40.3	41.4	42.0
80°	27.6	29.8	30.9	31.5	30.4
82.5°	20.4	22.1	22.6	22.6	21.0
85°	12.7	14.4	15.5	14.9	12.7
87.5°	6.1	8.3	8.8	7.7	6.1
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	11.83	13.32	12.19	13.64	13.95	15.85	17.35	16.21	17.66	17.98
	3H	13.41	14.76	13.79	15.09	15.45	17.24	18.58	17.62	18.91	19.27
	4H	14.06	15.32	14.46	15.67	16.04	17.64	18.90	18.04	19.25	19.63
	6H	14.56	15.73	14.98	16.10	16.49	17.85	19.01	18.26	19.38	19.77
	8H	14.75	15.85	15.17	16.24	16.64	17.91	19.01	18.33	19.40	19.81
	12H	14.87	15.93	15.30	16.31	16.74	17.94	19.00	18.37	19.38	19.81
4H	2H	12.59	13.86	12.99	14.20	14.58	15.98	17.24	16.38	17.59	17.97
	3H	14.38	15.42	14.79	15.82	16.23	17.55	18.60	17.96	19.00	19.40
	4H	15.15	16.09	15.58	16.50	16.94	18.06	19.00	18.49	19.42	19.86
	6H	15.79	16.60	16.24	17.05	17.51	18.39	19.20	18.84	19.65	20.11
	8H	16.01	16.78	16.48	17.22	17.69	18.48	19.25	18.95	19.69	20.16
	12H	16.19	16.87	16.67	17.35	17.82	18.56	19.24	19.04	19.72	20.19
8H	4H	15.53	16.29	15.99	16.74	17.21	18.16	18.93	18.62	19.37	19.84
	6H	16.31	16.94	16.80	17.43	17.91	18.58	19.21	19.08	19.70	20.18
	8H	16.62	17.19	17.14	17.70	18.19	18.74	19.31	19.25	19.82	20.30
	12H	16.88	17.39	17.39	17.88	18.44	18.88	19.38	19.39	19.87	20.43
12H	4H	15.57	16.25	16.05	16.73	17.20	18.16	18.84	18.64	19.32	19.79
	6H	16.38	16.95	16.89	17.46	17.95	18.59	19.16	19.10	19.67	20.16
	8H	16.76	17.27	17.27	17.76	18.32	18.80	19.30	19.31	19.79	20.36