

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: P1175352

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175352
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-S1090D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

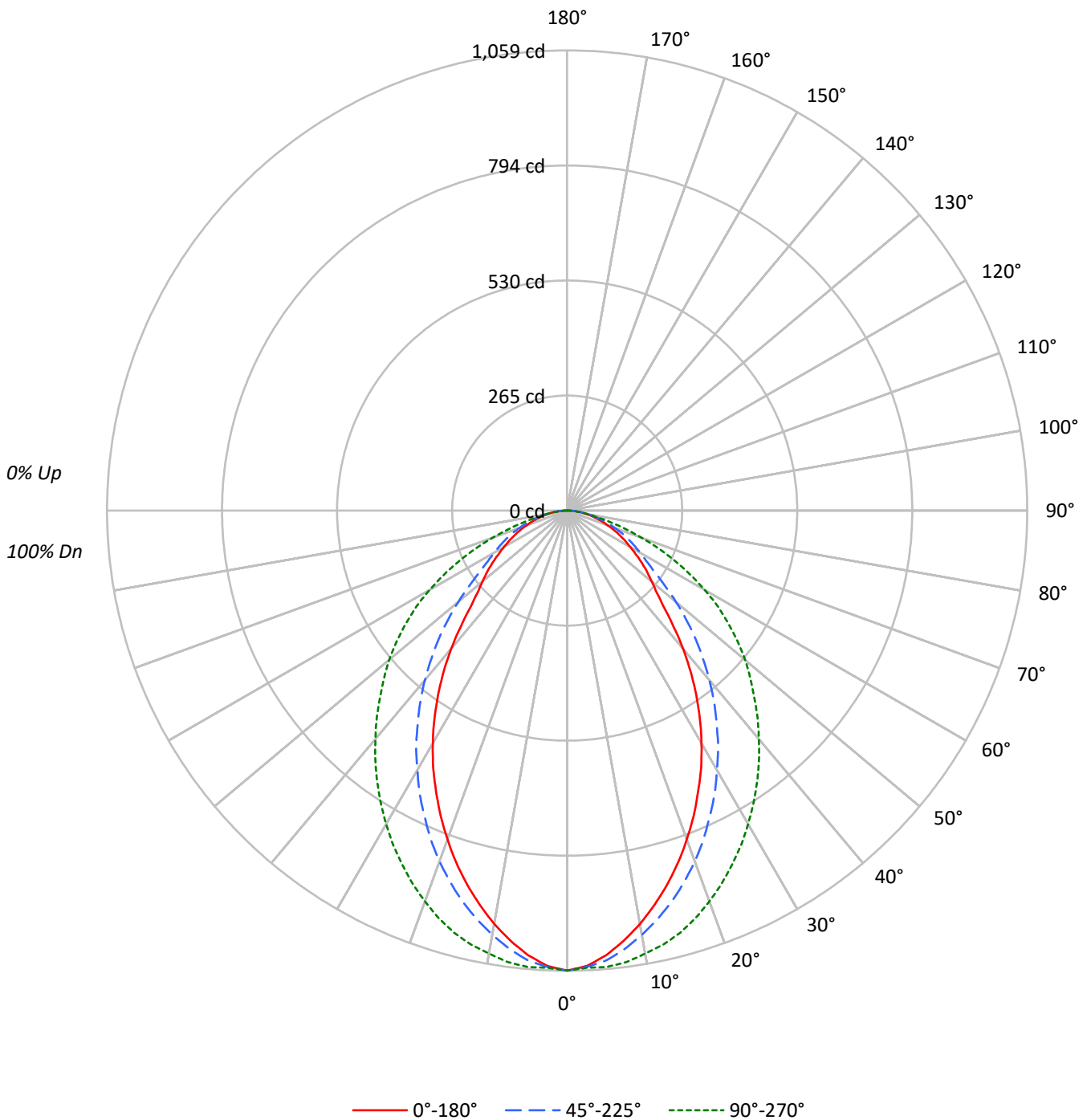
Lumens per Lamp: N/A
Luminaire Lumens: 1994.4 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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°	7289	7289	7289
5°	7100	7180	7285
10°	6754	6930	7238
15°	6348	6636	7168
20°	5900	6295	7013
25°	5420	5898	6827
30°	4916	5480	6623
35°	4351	5038	6406
40°	3732	4579	6171
45°	3062	4078	5933
50°	2724	3504	5727
55°	2514	2934	5437
60°	2313	2673	5037
65°	2152	2519	4451
70°	2009	2351	3636
75°	1889	2176	2724
80°	1780	1994	1959
85°	1635	1991	1635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.9
10°-20°	264.2	13.2
20°-30°	363.4	18.2
30°-40°	385.4	19.3
40°-50°	337.4	16.9
50°-60°	258.9	13.0
60°-70°	172.4	8.6
70°-80°	88.4	4.4
80°-90°	26.2	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°	725.6	36.4
0°-40°	1111.0	55.7
0°-60°	1707.3	85.6
0°-90°	1994.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1027	1041	1039	1046	1054	96
15°	891	911	931	975	1006	250
25°	714	738	776	842	899	328
35°	518	542	599	688	762	323
45°	314	341	419	523	609	248
55°	209	214	244	363	453	188
65°	132	133	155	203	273	132
75°	71	76	82	86	102	75
85°	21	23	25	24	21	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1048.7	1059.5	1051.4	1052.3	1053.2
5°	1027.2	1040.6	1038.8	1046.0	1054.1
7.5°	998.4	1012.8	1017.3	1035.2	1047.8
10°	966.0	982.2	991.2	1018.2	1035.2
12.5°	929.2	948.1	962.5	997.5	1022.7
15°	890.6	911.2	931.0	975.0	1005.6
17.5°	849.2	869.9	896.0	946.3	983.1
20°	805.2	827.7	859.1	913.0	957.1
22.5°	760.3	783.6	819.6	878.9	929.2
25°	713.5	737.8	776.4	842.0	898.7
27.5°	667.7	690.2	735.1	805.2	867.2
30°	618.3	641.6	689.3	766.5	833.0
32.5°	568.8	592.2	647.0	727.9	798.0
35°	517.6	541.9	599.4	687.5	762.1
37.5°	466.4	491.6	555.4	646.1	725.2
40°	415.2	442.1	509.5	604.8	686.6
42.5°	363.1	391.8	462.8	564.4	648.8
45°	314.5	340.6	418.8	523.0	609.3
47.5°	279.5	294.8	372.0	480.8	571.5
50°	254.3	261.5	327.1	440.3	534.7
52.5°	231.9	236.3	283.1	402.6	494.3
55°	209.4	213.9	244.4	363.1	452.9
57.5°	187.8	190.5	215.7	323.5	411.6
60°	168.0	169.8	194.1	284.0	365.8
62.5°	150.1	151.0	173.4	243.5	319.9
65°	132.1	133.0	154.6	203.1	273.2
67.5°	115.9	115.9	136.6	166.3	228.3
70°	99.8	99.8	116.8	134.8	180.6
72.5°	85.4	87.2	98.9	108.7	141.1
75°	71.0	75.5	81.8	86.3	102.4
77.5°	57.5	62.9	65.6	67.4	68.3
80°	44.9	48.5	50.3	51.2	49.4
82.5°	33.3	35.9	36.8	36.8	34.1
85°	20.7	23.4	25.2	24.3	20.7
87.5°	9.9	13.5	14.4	12.6	9.9
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	13.52	15.01	13.88	15.33	15.64	17.54	19.04	17.91	19.35	19.67
	3H	15.10	16.45	15.48	16.78	17.14	18.93	20.27	19.31	20.60	20.96
	4H	15.75	17.01	16.15	17.36	17.74	19.33	20.60	19.73	20.94	21.32
	6H	16.26	17.42	16.67	17.79	18.18	19.54	20.70	19.95	21.07	21.46
	8H	16.44	17.55	16.86	17.93	18.34	19.60	20.71	20.02	21.10	21.50
	12H	16.56	17.62	16.99	18.01	18.44	19.63	20.69	20.06	21.07	21.50
4H	2H	14.29	15.55	14.69	15.90	16.27	17.67	18.93	18.07	19.28	19.66
	3H	16.07	17.11	16.48	17.52	17.92	19.24	20.29	19.65	20.69	21.09
	4H	16.84	17.78	17.27	18.19	18.63	19.75	20.69	20.18	21.11	21.55
	6H	17.48	18.30	17.93	18.74	19.20	20.08	20.90	20.54	21.34	21.80
	8H	17.71	18.47	18.17	18.92	19.38	20.18	20.94	20.64	21.39	21.85
	12H	17.88	18.56	18.36	19.04	19.51	20.25	20.93	20.73	21.41	21.88
8H	4H	17.22	17.99	17.68	18.43	18.90	19.85	20.62	20.32	21.06	21.53
	6H	18.00	18.63	18.49	19.12	19.60	20.27	20.90	20.77	21.39	21.87
	8H	18.31	18.88	18.83	19.39	19.88	20.43	21.00	20.94	21.51	22.00
	12H	18.58	19.08	19.09	19.57	20.13	20.57	21.07	21.08	21.56	22.13
12H	4H	17.26	17.94	17.74	18.42	18.89	19.85	20.53	20.33	21.01	21.48
	6H	18.07	18.64	18.59	19.15	19.64	20.28	20.85	20.80	21.36	21.85
	8H	18.45	18.96	18.96	19.45	20.01	20.49	20.99	21.00	21.49	22.05