

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: P1175353

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175353
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-S1090D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

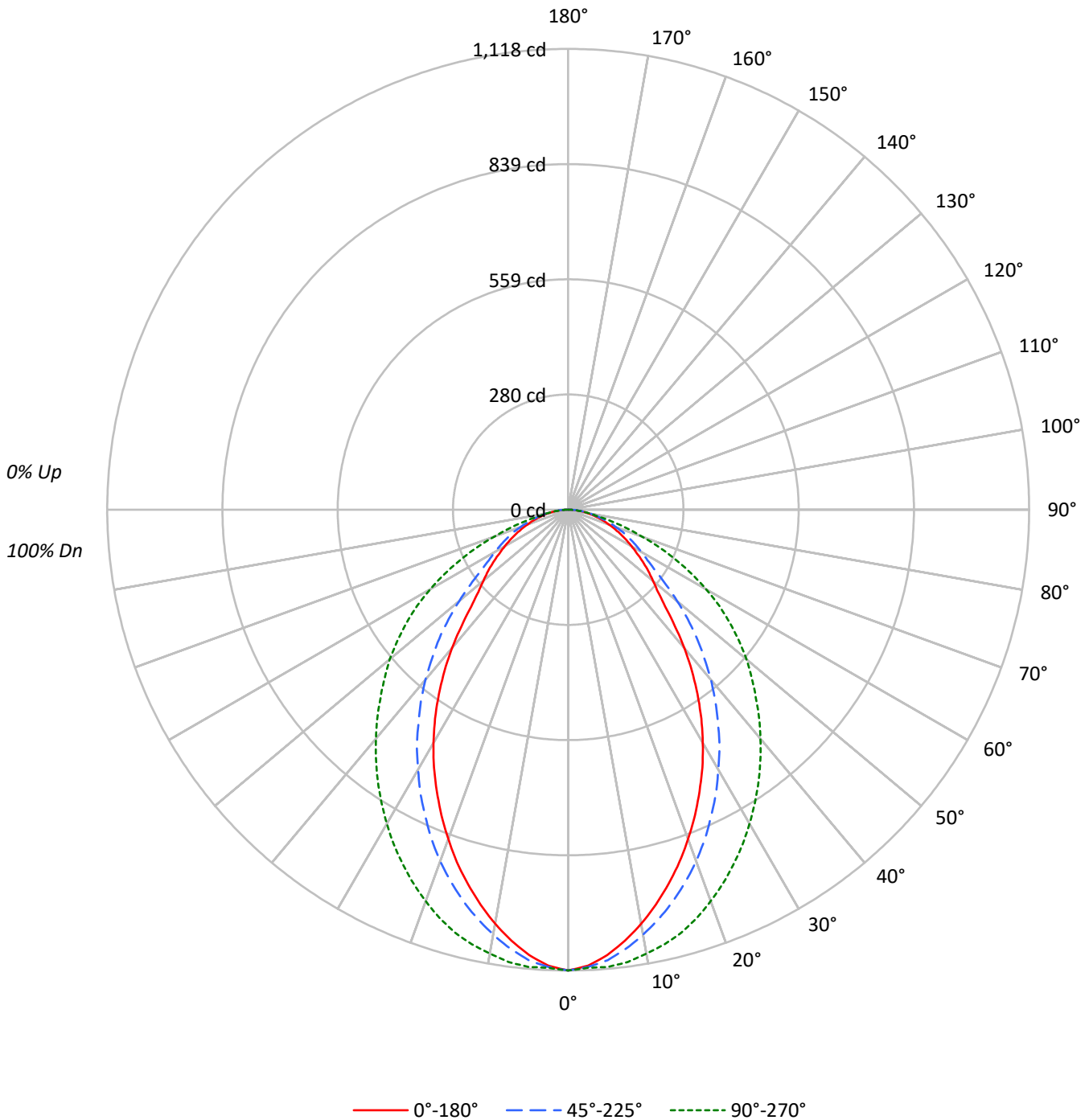
Lumens per Lamp: N/A
Luminaire Lumens: 2106.1 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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	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					86			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7697	7697	7697
5°	7497	7583	7694
10°	7133	7319	7644
15°	6704	7008	7570
20°	6230	6648	7406
25°	5724	6230	7210
30°	5191	5787	6994
35°	4594	5321	6765
40°	3940	4836	6517
45°	3235	4306	6265
50°	2877	3700	6049
55°	2654	3098	5742
60°	2444	2823	5320
65°	2273	2659	4700
70°	2120	2484	3841
75°	1995	2298	2878
80°	1883	2105	2070
85°	1722	2101	1722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	4.9
10°-20°	279.0	13.2
20°-30°	383.8	18.2
30°-40°	407.0	19.3
40°-50°	356.3	16.9
50°-60°	273.4	13.0
60°-70°	182.1	8.6
70°-80°	93.4	4.4
80°-90°	27.7	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°	766.2	36.4
0°-40°	1173.3	55.7
0°-60°	1802.9	85.6
0°-90°	2106.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1085	1099	1097	1105	1113	101
15°	940	962	983	1030	1062	264
25°	754	779	820	889	949	346
35°	547	572	633	726	805	341
45°	332	360	442	552	643	262
55°	221	226	258	383	478	198
65°	140	140	163	214	288	139
75°	75	80	86	91	108	80
85°	22	25	27	26	22	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.9	1117.9	1117.9	1117.9	1117.9
2.5°	1107.5	1118.9	1110.4	1111.3	1112.3
5°	1084.7	1099.0	1097.1	1104.7	1113.2
7.5°	1054.4	1069.5	1074.3	1093.3	1106.6
10°	1020.2	1037.3	1046.8	1075.2	1093.3
12.5°	981.3	1001.2	1016.4	1053.4	1080.0
15°	940.5	962.3	983.2	1029.7	1062.0
17.5°	896.8	918.7	946.2	999.3	1038.2
20°	850.3	874.0	907.3	964.2	1010.7
22.5°	802.9	827.5	865.5	928.1	981.3
25°	753.5	779.1	820.0	889.2	949.0
27.5°	705.1	728.8	776.3	850.3	915.8
30°	652.9	677.6	727.9	809.5	879.7
32.5°	600.7	625.4	683.3	768.7	842.7
35°	546.6	572.3	633.0	726.0	804.8
37.5°	492.5	519.1	586.5	682.3	765.9
40°	438.4	466.9	538.1	638.7	725.1
42.5°	383.4	413.8	488.7	596.0	685.2
45°	332.2	359.7	442.2	552.3	643.4
47.5°	295.1	311.3	392.9	507.7	603.6
50°	268.6	276.2	345.4	465.0	564.7
52.5°	244.8	249.6	298.9	425.2	522.0
55°	221.1	225.9	258.1	383.4	478.3
57.5°	198.3	201.2	227.8	341.6	434.7
60°	177.5	179.4	205.0	299.9	386.3
62.5°	158.5	159.4	183.2	257.2	337.9
65°	139.5	140.5	163.2	214.5	288.5
67.5°	122.4	122.4	144.3	175.6	241.1
70°	105.3	105.3	123.4	142.4	190.8
72.5°	90.2	92.1	104.4	114.8	149.0
75°	75.0	79.7	86.4	91.1	108.2
77.5°	60.7	66.4	69.3	71.2	72.1
80°	47.5	51.2	53.1	54.1	52.2
82.5°	35.1	38.0	38.9	38.9	36.1
85°	21.8	24.7	26.6	25.6	21.8
87.5°	10.4	14.2	15.2	13.3	10.4
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	13.71	15.20	14.07	15.52	15.83	17.73	19.23	18.10	19.54	19.86
	3H	15.29	16.64	15.67	16.96	17.33	19.12	20.46	19.50	20.79	21.15
	4H	15.94	17.20	16.34	17.55	17.92	19.52	20.78	19.92	21.13	21.51
	6H	16.44	17.61	16.86	17.98	18.37	19.73	20.89	20.14	21.26	21.65
	8H	16.63	17.73	17.05	18.12	18.53	19.79	20.90	20.21	21.29	21.69
	12H	16.75	17.81	17.18	18.19	18.62	19.82	20.88	20.25	21.26	21.69
4H	2H	14.48	15.74	14.88	16.08	16.46	17.86	19.12	18.26	19.47	19.85
	3H	16.26	17.30	16.67	17.70	18.11	19.43	20.48	19.84	20.88	21.28
	4H	17.03	17.97	17.46	18.38	18.82	19.94	20.88	20.37	21.30	21.74
	6H	17.66	18.48	18.12	18.93	19.39	20.27	21.09	20.72	21.53	21.99
	8H	17.89	18.66	18.36	19.10	19.57	20.37	21.13	20.83	21.58	22.04
	12H	18.07	18.75	18.55	19.23	19.70	20.44	21.12	20.92	21.60	22.07
8H	4H	17.41	18.17	17.87	18.62	19.09	20.04	20.81	20.50	21.25	21.72
	6H	18.19	18.82	18.68	19.31	19.79	20.46	21.09	20.96	21.58	22.06
	8H	18.50	19.07	19.02	19.58	20.07	20.62	21.19	21.13	21.70	22.19
	12H	18.76	19.27	19.27	19.76	20.32	20.76	21.26	21.27	21.75	22.32
12H	4H	17.45	18.13	17.93	18.61	19.08	20.04	20.72	20.52	21.20	21.67
	6H	18.26	18.83	18.77	19.34	19.83	20.47	21.04	20.99	21.55	22.04
	8H	18.64	19.15	19.15	19.64	20.20	20.68	21.18	21.19	21.68	22.24