

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: P1175418

Luminaire Tested: S125RDRP-H375D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175418
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-H375D950-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

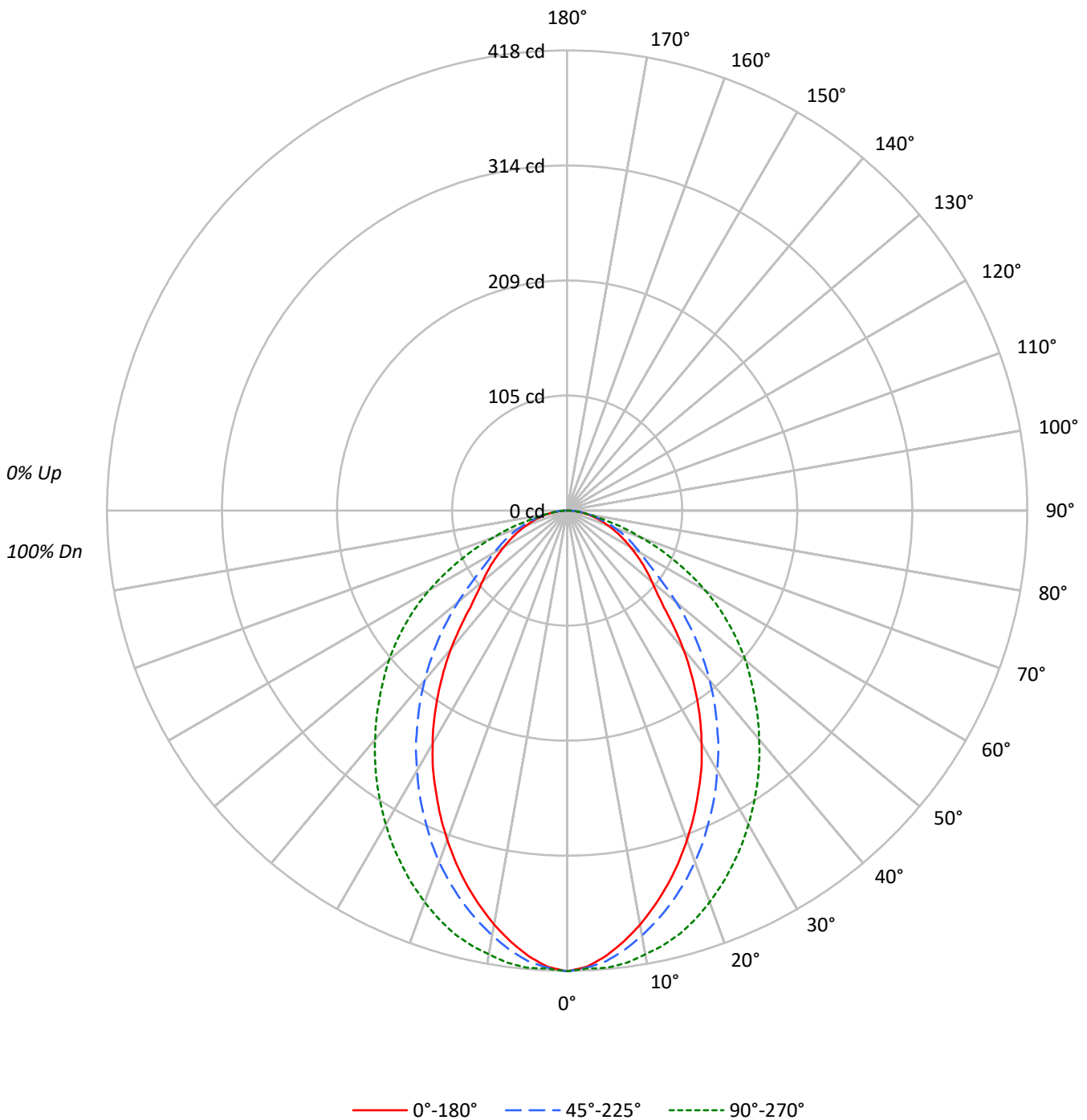
Lumens per Lamp: N/A
Luminaire Lumens: 788.5 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2881	2881	2881
5°	2807	2839	2881
10°	2670	2740	2862
15°	2510	2624	2834
20°	2332	2489	2773
25°	2143	2332	2699
30°	1943	2166	2619
35°	1720	1992	2533
40°	1475	1810	2439
45°	1211	1612	2346
50°	1077	1385	2264
55°	994	1160	2150
60°	914	1056	1991
65°	850	995	1760
70°	793	930	1437
75°	748	859	1077
80°	706	789	773
85°	648	782	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2346 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	4.9
10°-20°	104.4	13.2
20°-30°	143.7	18.2
30°-40°	152.4	19.3
40°-50°	133.4	16.9
50°-60°	102.3	13.0
60°-70°	68.2	8.6
70°-80°	35.0	4.4
80°-90°	10.4	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°	286.9	36.4
0°-40°	439.3	55.7
0°-60°	675.0	85.6
0°-90°	788.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	406	411	411	414	417	38
15°	352	360	368	386	398	99
25°	282	292	307	333	355	130
35°	205	214	237	272	301	128
45°	124	135	166	207	241	98
55°	83	85	97	144	179	74
65°	52	53	61	80	108	52
75°	28	30	32	34	40	30
85°	8	9	10	10	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.5	418.5	418.5	418.5	418.5
2.5°	414.6	418.9	415.7	416.0	416.4
5°	406.1	411.4	410.7	413.6	416.8
7.5°	394.7	400.4	402.2	409.3	414.3
10°	381.9	388.3	391.9	402.5	409.3
12.5°	367.4	374.8	380.5	394.4	404.3
15°	352.1	360.3	368.1	385.5	397.6
17.5°	335.7	343.9	354.2	374.1	388.7
20°	318.3	327.2	339.7	361.0	378.4
22.5°	300.6	309.8	324.0	347.5	367.4
25°	282.1	291.7	307.0	332.9	355.3
27.5°	264.0	272.9	290.6	318.3	342.9
30°	244.4	253.7	272.5	303.1	329.4
32.5°	224.9	234.1	255.8	287.8	315.5
35°	204.6	214.2	237.0	271.8	301.3
37.5°	184.4	194.3	219.6	255.5	286.7
40°	164.1	174.8	201.4	239.1	271.4
42.5°	143.5	154.9	183.0	223.1	256.5
45°	124.4	134.7	165.6	206.8	240.9
47.5°	110.5	116.5	147.1	190.1	226.0
50°	100.5	103.4	129.3	174.1	211.4
52.5°	91.7	93.4	111.9	159.2	195.4
55°	82.8	84.6	96.6	143.5	179.1
57.5°	74.3	75.3	85.3	127.9	162.7
60°	66.4	67.1	76.7	112.3	144.6
62.5°	59.3	59.7	68.6	96.3	126.5
65°	52.2	52.6	61.1	80.3	108.0
67.5°	45.8	45.8	54.0	65.7	90.2
70°	39.4	39.4	46.2	53.3	71.4
72.5°	33.8	34.5	39.1	43.0	55.8
75°	28.1	29.8	32.3	34.1	40.5
77.5°	22.7	24.9	25.9	26.6	27.0
80°	17.8	19.2	19.9	20.3	19.5
82.5°	13.1	14.2	14.6	14.6	13.5
85°	8.2	9.2	9.9	9.6	8.2
87.5°	3.9	5.3	5.7	5.0	3.9
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	10.29	11.79	10.66	12.10	12.42	14.32	15.82	14.68	16.13	16.44
	3H	11.88	13.22	12.25	13.55	13.91	15.70	17.05	16.08	17.38	17.74
	4H	12.52	13.78	12.92	14.13	14.51	16.11	17.37	16.51	17.72	18.10
	6H	13.03	14.19	13.44	14.56	14.95	16.32	17.48	16.73	17.85	18.24
	8H	13.21	14.32	13.64	14.71	15.11	16.37	17.48	16.80	17.87	18.27
	12H	13.34	14.40	13.77	14.78	15.21	16.41	17.47	16.84	17.85	18.28
4H	2H	11.06	12.32	11.46	12.67	13.05	14.45	15.71	14.85	16.06	16.44
	3H	12.84	13.89	13.25	14.29	14.69	16.02	17.06	16.43	17.46	17.86
	4H	13.61	14.55	14.04	14.97	15.41	16.53	17.47	16.96	17.88	18.32
	6H	14.25	15.07	14.71	15.51	15.97	16.85	17.67	17.31	18.11	18.57
	8H	14.48	15.25	14.94	15.69	16.16	16.95	17.72	17.42	18.16	18.63
	12H	14.65	15.34	15.13	15.81	16.29	17.02	17.71	17.51	18.19	18.66
8H	4H	13.99	14.76	14.46	15.20	15.67	16.63	17.39	17.09	17.84	18.30
	6H	14.77	15.40	15.27	15.90	16.37	17.05	17.68	17.54	18.17	18.65
	8H	15.09	15.66	15.60	16.17	16.65	17.21	17.77	17.72	18.28	18.77
	12H	15.35	15.85	15.86	16.34	16.91	17.34	17.85	17.85	18.34	18.90
12H	4H	14.03	14.72	14.52	15.20	15.67	16.62	17.31	17.11	17.79	18.26
	6H	14.85	15.42	15.36	15.93	16.41	17.06	17.63	17.57	18.14	18.62
	8H	15.23	15.73	15.74	16.22	16.79	17.27	17.77	17.78	18.26	18.83