

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: P1175415

Luminaire Tested: S125RDRP-H375D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175415
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-H375D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

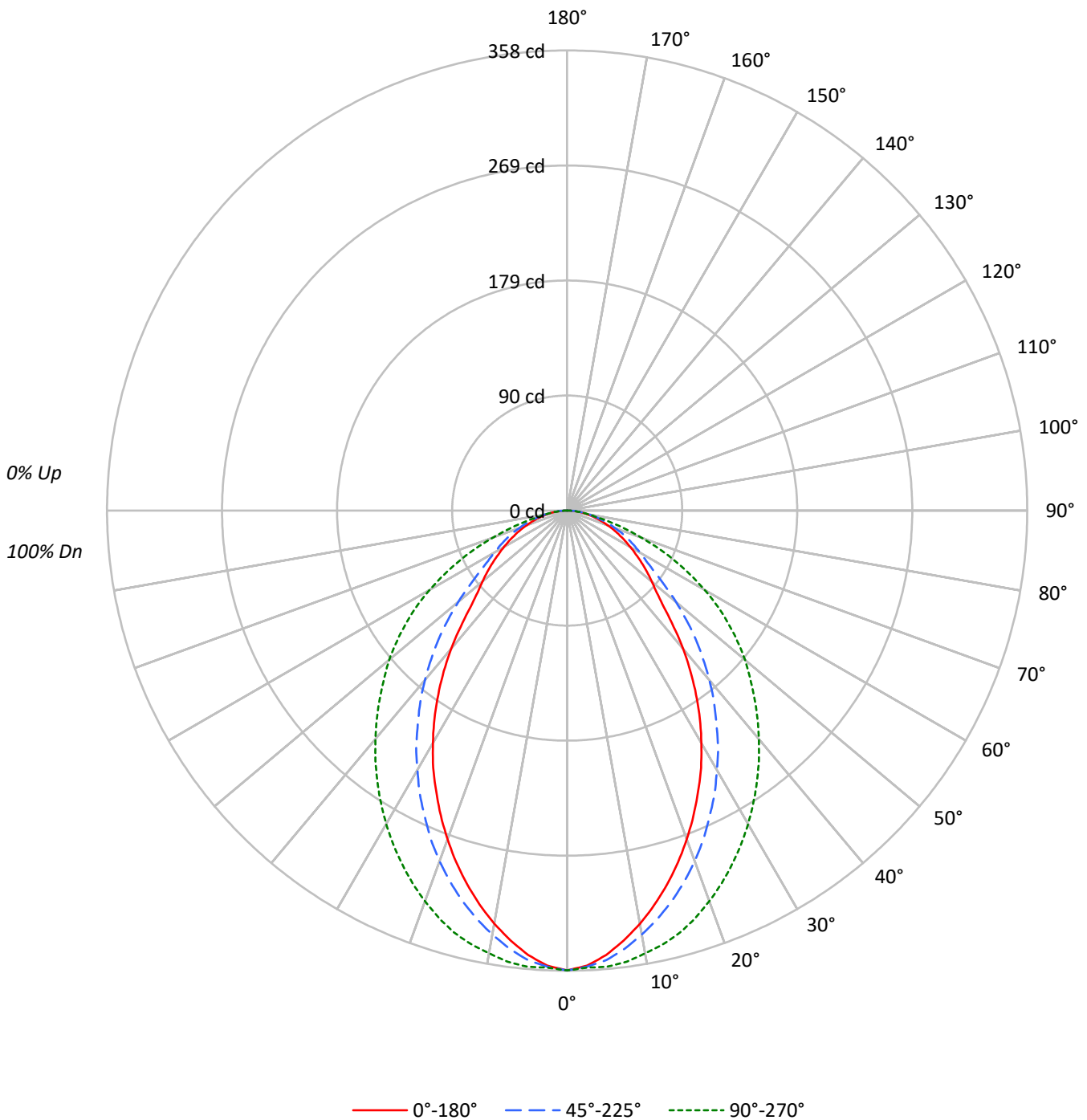
Lumens per Lamp: N/A
Luminaire Lumens: 673.9 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2463	2463	2463
5°	2399	2426	2462
10°	2282	2341	2446
15°	2145	2243	2422
20°	1994	2127	2370
25°	1832	1993	2306
30°	1661	1852	2238
35°	1470	1702	2164
40°	1261	1548	2085
45°	1035	1378	2005
50°	920	1184	1936
55°	849	992	1837
60°	782	903	1702
65°	727	850	1504
70°	678	795	1228
75°	638	734	920
80°	603	674	662
85°	553	671	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2005 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	4.9
10°-20°	89.3	13.2
20°-30°	122.8	18.2
30°-40°	130.2	19.3
40°-50°	114.0	16.9
50°-60°	87.5	13.0
60°-70°	58.3	8.6
70°-80°	29.9	4.4
80°-90°	8.9	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°	245.2	36.4
0°-40°	375.4	55.7
0°-60°	576.9	85.6
0°-90°	673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	347	352	351	353	356	32
15°	301	308	315	329	340	84
25°	241	249	262	284	304	111
35°	175	183	202	232	258	109
45°	106	115	142	177	206	84
55°	71	72	83	123	153	63
65°	45	45	52	69	92	44
75°	24	26	28	29	35	25
85°	7	8	8	8	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	357.7	357.7	357.7	357.7	357.7
2.5°	354.3	358.0	355.2	355.6	355.9
5°	347.1	351.6	351.0	353.4	356.2
7.5°	337.3	342.2	343.7	349.8	354.0
10°	326.4	331.9	334.9	344.0	349.8
12.5°	314.0	320.3	325.2	337.0	345.5
15°	300.9	307.9	314.6	329.4	339.8
17.5°	286.9	293.9	302.7	319.7	332.2
20°	272.1	279.6	290.3	308.5	323.4
22.5°	256.9	264.8	276.9	297.0	314.0
25°	241.1	249.3	262.3	284.5	303.6
27.5°	225.6	233.2	248.4	272.1	293.0
30°	208.9	216.8	232.9	259.0	281.5
32.5°	192.2	200.1	218.6	245.9	269.6
35°	174.9	183.1	202.5	232.3	257.5
37.5°	157.6	166.1	187.6	218.3	245.0
40°	140.3	149.4	172.2	204.3	232.0
42.5°	122.7	132.4	156.4	190.7	219.2
45°	106.3	115.1	141.5	176.7	205.9
47.5°	94.4	99.6	125.7	162.4	193.1
50°	85.9	88.4	110.5	148.8	180.7
52.5°	78.3	79.9	95.6	136.0	167.0
55°	70.7	72.3	82.6	122.7	153.0
57.5°	63.5	64.4	72.9	109.3	139.1
60°	56.8	57.4	65.6	95.9	123.6
62.5°	50.7	51.0	58.6	82.3	108.1
65°	44.6	44.9	52.2	68.6	92.3
67.5°	39.2	39.2	46.2	56.2	77.1
70°	33.7	33.7	39.5	45.5	61.0
72.5°	28.8	29.5	33.4	36.7	47.7
75°	24.0	25.5	27.6	29.1	34.6
77.5°	19.4	21.3	22.2	22.8	23.1
80°	15.2	16.4	17.0	17.3	16.7
82.5°	11.2	12.1	12.4	12.4	11.5
85°	7.0	7.9	8.5	8.2	7.0
87.5°	3.3	4.6	4.9	4.3	3.3
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	9.75	11.25	10.12	11.56	11.88	13.77	15.27	14.14	15.58	15.90
	3H	11.34	12.68	11.71	13.01	13.37	15.16	16.50	15.54	16.83	17.19
	4H	11.98	13.24	12.38	13.59	13.97	15.56	16.82	15.96	17.17	17.55
	6H	12.49	13.65	12.90	14.02	14.41	15.77	16.93	16.18	17.30	17.69
	8H	12.67	13.78	13.10	14.17	14.57	15.83	16.94	16.25	17.33	17.73
	12H	12.79	13.85	13.22	14.24	14.67	15.86	16.92	16.29	17.30	17.73
4H	2H	10.52	11.78	10.92	12.13	12.51	13.90	15.16	14.30	15.51	15.89
	3H	12.30	13.35	12.71	13.75	14.15	15.47	16.52	15.88	16.92	17.32
	4H	13.07	14.01	13.50	14.43	14.86	15.98	16.92	16.41	17.34	17.78
	6H	13.71	14.53	14.17	14.97	15.43	16.31	17.13	16.76	17.57	18.03
	8H	13.94	14.70	14.40	15.15	15.61	16.40	17.17	16.87	17.61	18.08
	12H	14.11	14.79	14.59	15.27	15.74	16.48	17.16	16.96	17.64	18.11
8H	4H	13.45	14.22	13.92	14.66	15.13	16.08	16.85	16.54	17.29	17.76
	6H	14.23	14.86	14.73	15.35	15.83	16.50	17.13	17.00	17.62	18.10
	8H	14.54	15.11	15.06	15.62	16.11	16.66	17.23	17.17	17.74	18.22
	12H	14.80	15.31	15.31	15.80	16.36	16.80	17.30	17.31	17.79	18.35
12H	4H	13.49	14.17	13.97	14.65	15.12	16.08	16.76	16.56	17.24	17.71
	6H	14.30	14.87	14.82	15.38	15.87	16.51	17.08	17.03	17.59	18.08
	8H	14.68	15.19	15.19	15.68	16.24	16.72	17.22	17.23	17.71	18.28