

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1062051

Luminaire Tested: S125RDR-H375D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H375D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

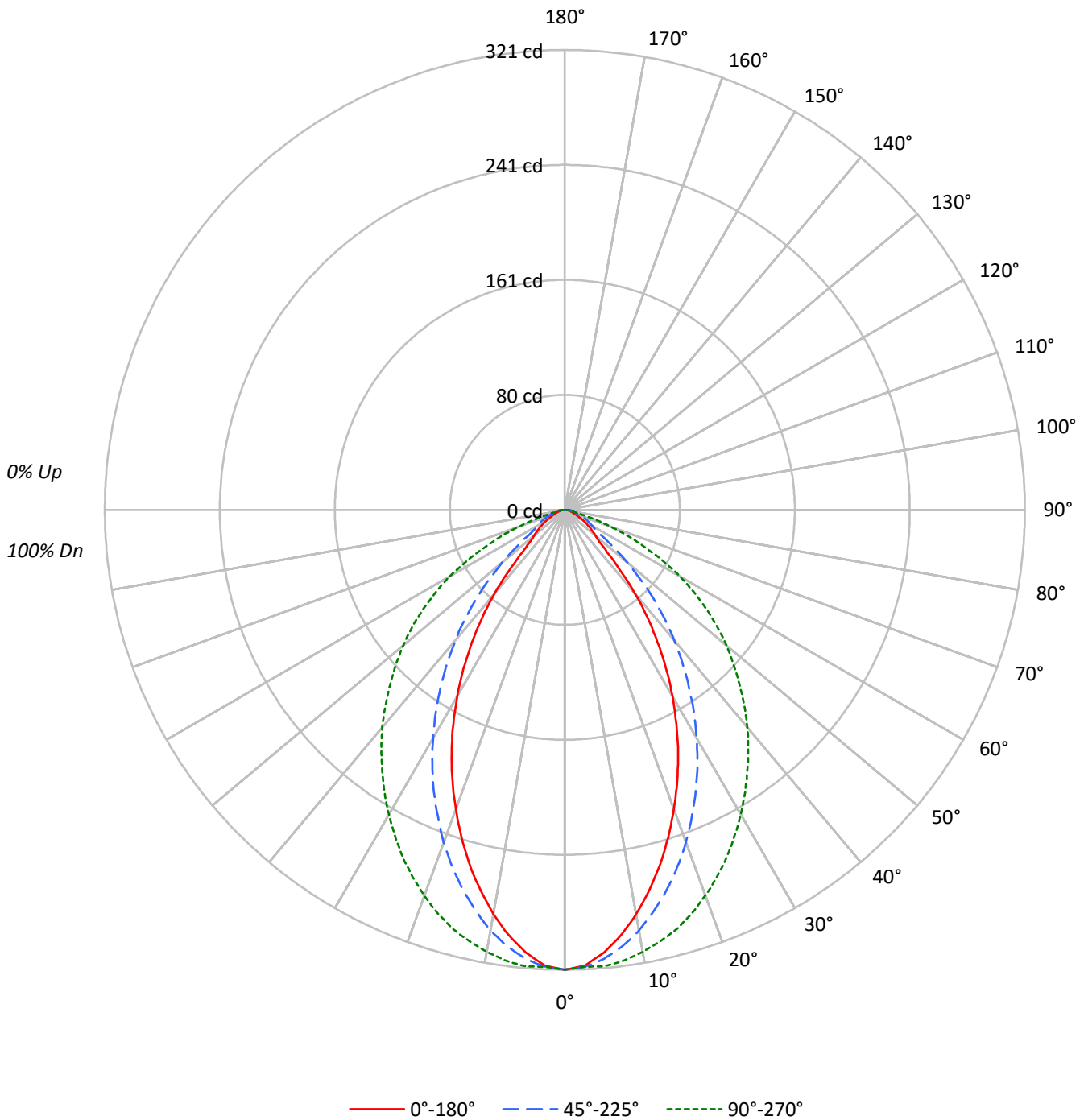
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 465.0 lumens  
Efficiency: N/A  
Efficacy: 39.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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 (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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89			89	
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79	
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70	
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62			62	
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56			56	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46	
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39			39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			36	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2210	2210	2210
5°	2145	2174	2210
10°	2004	2085	2190
15°	1828	1957	2157
20°	1630	1810	2100
25°	1421	1643	2032
30°	1193	1462	1953
35°	949	1270	1867
40°	684	1067	1781
45°	405	847	1678
50°	300	603	1579
55°	254	372	1445
60°	207	300	1274
65°	161	279	1005
70°	137	240	672
75°	128	207	271
80°	135	218	190
85°	158	324	213

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1678 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.6	6.4
10°-20°	77.7	16.7
20°-30°	101.6	21.8
30°-40°	98.9	21.3
40°-50°	74.2	16.0
50°-60°	46.5	10.0
60°-70°	24.2	5.2
70°-80°	8.8	1.9
80°-90°	3.5	0.7
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°	208.9	44.9
0°-40°	307.8	66.2
0°-60°	428.6	92.2
0°-90°	465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	310	314	314	317	320	29
15°	256	264	275	292	303	72
25°	187	197	216	246	268	85
35°	113	125	151	191	222	70
45°	42	54	87	134	172	35
55°	21	22	31	81	120	19
65°	10	11	17	33	62	10
75°	5	6	8	8	10	5
85°	2	3	4	4	3	2
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	321.0	321.0	321.0	321.0	321.0
2.5°	318.3	321.4	319.3	319.3	319.3
5°	310.4	314.5	314.5	316.9	319.7
7.5°	299.5	304.3	307.4	313.2	317.3
10°	286.6	292.4	298.2	307.7	313.2
12.5°	271.9	278.7	286.9	300.2	308.4
15°	256.5	264.1	274.6	291.7	302.6
17.5°	239.8	248.7	261.3	281.8	295.1
20°	222.4	231.3	247.0	270.2	286.6
22.5°	205.0	214.6	231.6	257.9	277.4
25°	187.0	197.2	216.3	245.6	267.5
27.5°	168.5	179.1	200.3	233.0	256.5
30°	150.1	161.0	183.9	219.4	245.6
32.5°	131.7	143.3	167.5	205.4	234.0
35°	112.9	124.9	151.1	191.4	222.1
37.5°	94.8	106.8	134.8	177.1	210.2
40°	76.1	89.0	118.7	162.7	198.2
42.5°	57.7	71.0	102.7	148.4	185.2
45°	41.6	53.9	87.0	134.4	172.3
47.5°	32.1	38.9	71.0	120.1	159.7
50°	28.0	30.0	56.3	106.8	147.4
52.5°	24.2	25.6	42.3	94.5	134.1
55°	21.2	22.2	31.0	81.2	120.4
57.5°	17.7	19.1	24.6	68.2	106.4
60°	15.0	15.7	21.8	56.3	92.5
62.5°	12.3	13.0	19.4	44.3	76.8
65°	9.9	10.6	17.1	32.8	61.7
67.5°	8.2	8.5	14.3	23.2	47.4
70°	6.8	7.2	11.9	16.0	33.4
72.5°	5.8	6.8	9.6	11.6	21.2
75°	4.8	6.5	7.8	8.2	10.2
77.5°	4.1	6.1	6.5	6.5	5.8
80°	3.4	5.1	5.5	5.1	4.8
82.5°	2.7	4.1	4.4	4.4	3.8
85°	2.0	3.4	4.1	3.8	2.7
87.5°	1.4	3.1	3.4	3.1	2.0
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	2.67	4.02	3.04	4.33	4.65	12.28	13.64	12.65	13.95	14.26
	3H	3.53	4.73	3.91	5.06	5.42	13.12	14.32	13.50	14.65	15.02
	4H	3.95	5.07	4.36	5.42	5.81	13.20	14.32	13.60	14.67	15.05
	6H	4.38	5.41	4.79	5.78	6.17	13.18	14.21	13.60	14.58	14.97
	8H	4.56	5.53	4.99	5.92	6.33	13.17	14.14	13.60	14.54	14.94
	12H	4.71	5.65	5.15	6.03	6.46	13.16	14.09	13.59	14.47	14.90
4H	2H	3.64	4.76	4.04	5.11	5.49	12.15	13.27	12.55	13.62	14.00
	3H	4.69	5.61	5.10	6.01	6.41	13.06	13.97	13.47	14.38	14.78
	4H	5.25	6.07	5.69	6.49	6.94	13.16	13.98	13.59	14.40	14.84
	6H	5.85	6.56	6.31	7.00	7.47	13.19	13.89	13.65	14.34	14.81
	8H	6.09	6.75	6.55	7.19	7.66	13.19	13.85	13.66	14.30	14.77
	12H	6.31	6.89	6.79	7.37	7.85	13.20	13.79	13.69	14.27	14.74
8H	4H	5.72	6.39	6.19	6.83	7.30	13.08	13.74	13.55	14.19	14.66
	6H	6.53	7.07	7.04	7.57	8.05	13.14	13.68	13.64	14.18	14.66
	8H	6.91	7.40	7.43	7.91	8.40	13.17	13.66	13.69	14.17	14.66
	12H	7.30	7.73	7.81	8.22	8.79	13.24	13.67	13.75	14.16	14.73
12H	4H	5.78	6.36	6.26	6.84	7.32	13.05	13.64	13.54	14.12	14.59
	6H	6.66	7.14	7.18	7.66	8.15	13.11	13.59	13.63	14.11	14.60
	8H	7.14	7.57	7.66	8.07	8.64	13.18	13.61	13.69	14.10	14.67