

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: P1062048

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H375D930-X4F0-XX-UDD-BVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

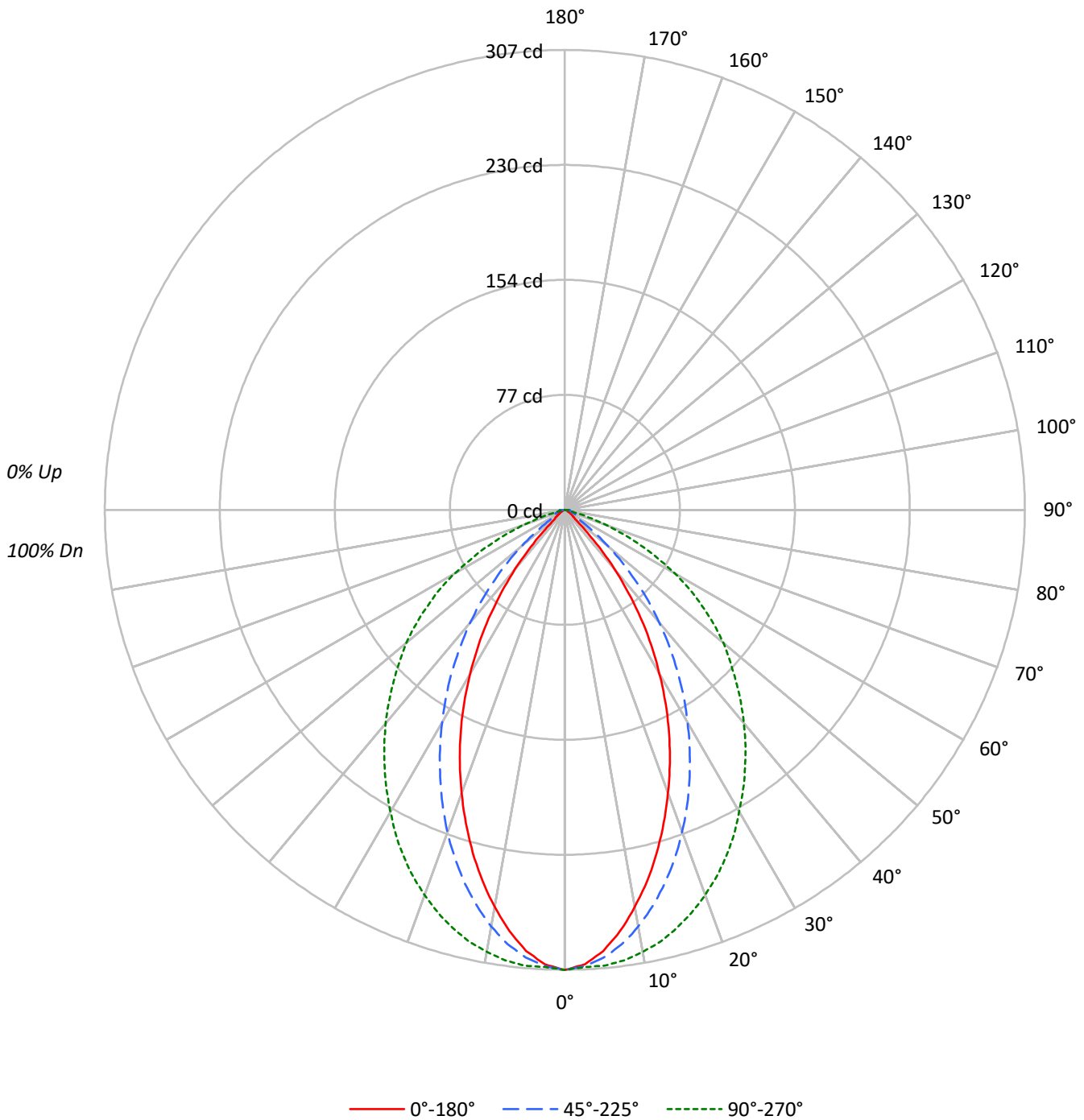
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 397.3 lumens  
Efficiency: N/A  
Efficacy: 34.0 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

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

	0°	45°	90°
0°	2114	2114	2114
5°	2042	2073	2111
10°	1882	1975	2095
15°	1690	1839	2060
20°	1475	1677	2005
25°	1250	1496	1936
30°	1003	1302	1850
35°	743	1099	1763
40°	460	877	1672
45°	179	642	1572
50°	84	402	1480
55°	61	172	1343
60°	43	123	1165
65°	28	127	906
70°	28	117	570
75°	37	117	181
80°	56	135	123
85°	79	269	190

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1572 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.2	7.1
10°-20°	73.0	18.4
20°-30°	92.9	23.4
30°-40°	86.5	21.8
40°-50°	59.5	15.0
50°-60°	33.7	8.5
60°-70°	15.9	4.0
70°-80°	5.0	1.3
80°-90°	2.6	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°	194.1	48.8
0°-40°	280.6	70.6
0°-60°	373.8	94.1
0°-90°	397.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	307	307	307	307	307	
5°	296	300	300	303	305	27
15°	237	245	258	277	289	66
25°	164	175	197	230	255	75
35°	88	101	131	175	210	55
45°	18	29	66	119	161	17
55°	5	6	14	69	112	5
65°	2	2	8	25	56	2
75°	1	3	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	307.1	307.1	307.1	307.1	307.1
2.5°	303.7	306.7	304.7	305.0	305.4
5°	295.5	299.6	299.9	302.6	305.4
7.5°	283.5	288.7	292.4	298.9	303.3
10°	269.2	275.4	282.5	293.1	299.6
12.5°	253.9	261.0	270.9	285.9	295.1
15°	237.1	245.0	258.0	277.4	289.0
17.5°	219.4	228.3	244.0	267.2	281.8
20°	201.3	210.9	228.9	255.6	273.6
22.5°	183.2	193.1	213.3	242.9	264.8
25°	164.5	175.0	196.9	230.0	254.9
27.5°	145.4	156.3	180.5	216.7	244.3
30°	126.2	137.8	163.8	203.0	232.7
32.5°	107.5	119.1	147.4	189.4	221.4
35°	88.4	100.7	130.7	175.4	209.8
37.5°	69.3	82.6	114.3	161.0	197.9
40°	51.2	63.8	97.6	147.1	186.0
42.5°	34.1	46.4	82.6	133.1	173.7
45°	18.4	29.3	65.9	119.1	161.4
47.5°	9.9	15.7	51.5	105.4	149.4
50°	7.8	8.9	37.5	92.8	138.2
52.5°	6.5	7.2	24.6	80.9	125.2
55°	5.1	5.8	14.3	68.6	111.9
57.5°	4.1	4.8	9.2	57.0	98.9
60°	3.1	3.8	8.9	45.7	84.6
62.5°	2.4	2.7	8.2	35.1	69.6
65°	1.7	2.0	7.8	24.6	55.6
67.5°	1.4	1.7	7.2	15.7	41.6
70°	1.4	1.4	5.8	10.2	28.3
72.5°	1.4	2.4	5.1	6.8	17.1
75°	1.4	3.1	4.4	4.8	6.8
77.5°	1.4	3.4	3.8	3.8	3.8
80°	1.4	3.1	3.4	3.4	3.1
82.5°	1.4	2.7	3.1	3.4	2.7
85°	1.0	2.7	3.4	3.1	2.4
87.5°	1.0	2.7	3.1	2.7	1.7
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	0.00	0.00	0.00	0.00	0.00	11.85	13.14	12.21	13.45	13.77
	3H	0.00	0.00	0.00	0.00	0.00	12.57	13.71	12.95	14.04	14.40
	4H	0.00	0.00	0.00	0.00	0.00	12.59	13.65	12.99	14.00	14.39
	6H	0.00	0.00	0.00	0.00	0.00	12.54	13.52	12.96	13.89	14.28
	8H	0.00	0.00	0.00	0.00	0.00	12.52	13.44	12.95	13.83	14.24
	12H	0.00	0.00	0.00	0.00	0.00	12.50	13.38	12.93	13.77	14.20
4H	2H	0.00	0.00	0.00	0.00	0.00	11.64	12.70	12.04	13.05	13.44
	3H	0.00	0.00	0.00	0.00	0.00	12.39	13.26	12.81	13.66	14.07
	4H	0.00	0.00	0.00	0.00	0.00	12.42	13.20	12.86	13.62	14.06
	6H	0.00	0.16	0.00	0.61	1.07	12.40	13.07	12.86	13.52	13.98
	8H	0.08	0.70	0.55	1.15	1.62	12.39	13.01	12.86	13.46	13.93
	12H	0.62	1.17	1.11	1.66	2.13	12.39	12.94	12.88	13.43	13.90
8H	4H	0.00	0.23	0.08	0.68	1.15	12.31	12.93	12.78	13.38	13.85
	6H	1.18	1.69	1.68	2.18	2.67	12.30	12.80	12.80	13.30	13.78
	8H	1.97	2.42	2.49	2.94	3.43	12.31	12.76	12.83	13.28	13.77
	12H	2.79	3.19	3.30	3.69	4.26	12.37	12.77	12.88	13.27	13.84
12H	4H	0.00	0.38	0.32	0.86	1.34	12.26	12.81	12.75	13.30	13.77
	6H	1.55	2.01	2.07	2.52	3.01	12.25	12.71	12.77	13.22	13.71
	8H	2.53	2.94	3.05	3.43	4.00	12.30	12.70	12.81	13.20	13.77