

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: P1062075

Luminaire Tested: S125RDR-H375D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062075  
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-H375D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

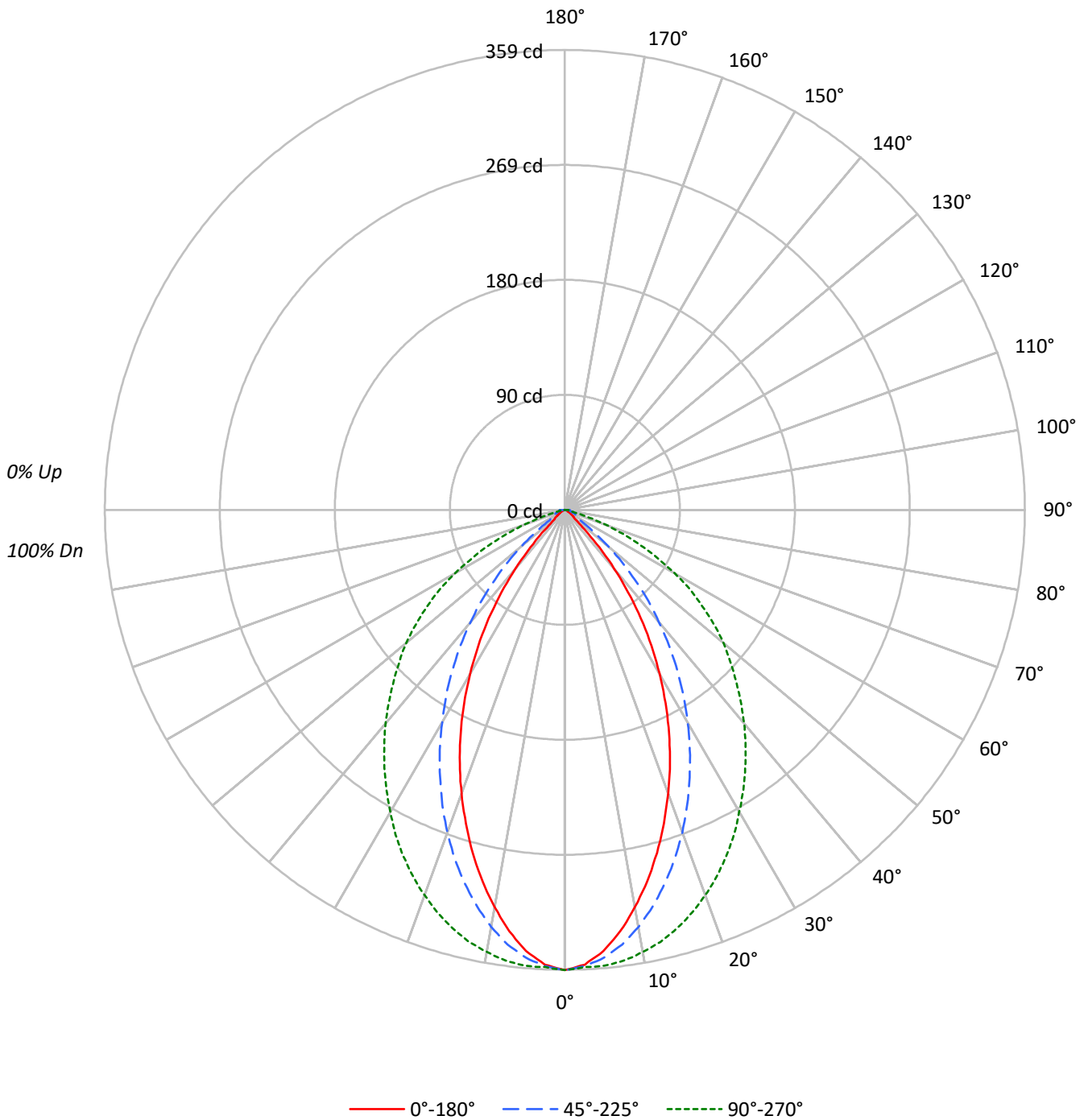
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 464.9 lumens  
Efficiency: N/A  
Efficacy: 39.7 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	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°	2474	2474	2474
5°	2390	2425	2469
10°	2202	2311	2451
15°	1978	2151	2411
20°	1726	1963	2346
25°	1462	1750	2265
30°	1174	1523	2165
35°	869	1285	2064
40°	538	1026	1956
45°	210	751	1838
50°	99	470	1732
55°	72	202	1573
60°	50	143	1363
65°	33	150	1061
70°	32	137	666
75°	43	138	213
80°	63	159	143
85°	95	316	221

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1838 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	7.1
10°-20°	85.4	18.4
20°-30°	108.7	23.4
30°-40°	101.2	21.8
40°-50°	69.7	15.0
50°-60°	39.4	8.5
60°-70°	18.6	4.0
70°-80°	5.8	1.3
80°-90°	3.0	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°	227.1	48.8
0°-40°	328.3	70.6
0°-60°	437.4	94.1
0°-90°	464.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	359	359	359	359	359	
5°	346	350	351	354	357	32
15°	278	287	302	325	338	77
25°	192	205	230	269	298	88
35°	103	118	153	205	246	64
45°	22	34	77	139	189	20
55°	6	7	17	80	131	6
65°	2	2	9	29	65	2
75°	2	4	5	6	8	2
85°	1	3	4	4	3	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	359.3	359.3	359.3	359.3	359.3
2.5°	355.3	358.9	356.5	356.9	357.3
5°	345.8	350.5	350.9	354.1	357.3
7.5°	331.8	337.8	342.2	349.7	354.9
10°	315.0	322.2	330.6	343.0	350.5
12.5°	297.0	305.4	317.0	334.6	345.4
15°	277.5	286.7	301.8	324.6	338.2
17.5°	256.7	267.1	285.5	312.6	329.8
20°	235.6	246.7	267.9	299.0	320.2
22.5°	214.4	226.0	249.5	284.3	309.8
25°	192.4	204.8	230.4	269.1	298.2
27.5°	170.1	182.9	211.2	253.5	285.9
30°	147.7	161.3	191.6	237.6	272.3
32.5°	125.8	139.3	172.5	221.6	259.1
35°	103.4	117.8	152.9	205.2	245.5
37.5°	81.0	96.6	133.7	188.4	231.6
40°	59.9	74.7	114.2	172.1	217.6
42.5°	39.9	54.3	96.6	155.7	203.2
45°	21.6	34.3	77.1	139.3	188.8
47.5°	11.6	18.4	60.3	123.4	174.9
50°	9.2	10.4	43.9	108.6	161.7
52.5°	7.6	8.4	28.7	94.6	146.5
55°	6.0	6.8	16.8	80.2	131.0
57.5°	4.8	5.6	10.8	66.7	115.8
60°	3.6	4.4	10.4	53.5	99.0
62.5°	2.8	3.2	9.6	41.1	81.4
65°	2.0	2.4	9.2	28.7	65.1
67.5°	1.6	2.0	8.4	18.4	48.7
70°	1.6	1.6	6.8	12.0	33.1
72.5°	1.6	2.8	6.0	8.0	20.0
75°	1.6	3.6	5.2	5.6	8.0
77.5°	1.6	4.0	4.4	4.4	4.4
80°	1.6	3.6	4.0	4.0	3.6
82.5°	1.6	3.2	3.6	4.0	3.2
85°	1.2	3.2	4.0	3.6	2.8
87.5°	1.2	3.2	3.6	3.2	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	0.00	0.00	0.00	0.00	0.00	12.39	13.68	12.76	14.00	14.31
	3H	0.00	0.00	0.00	0.00	0.00	13.11	14.26	13.49	14.59	14.95
	4H	0.00	0.00	0.00	0.00	0.00	13.14	14.20	13.54	14.55	14.94
	6H	0.00	0.00	0.00	0.00	0.00	13.09	14.06	13.50	14.43	14.83
	8H	0.00	0.00	0.00	0.00	0.00	13.06	13.99	13.50	14.38	14.78
	12H	0.00	0.00	0.00	0.00	0.00	13.05	13.93	13.48	14.31	14.74
4H	2H	0.00	0.00	0.00	0.00	0.00	12.19	13.25	12.59	13.60	13.98
	3H	0.00	0.00	0.00	0.00	0.00	12.94	13.81	13.35	14.21	14.62
	4H	0.00	0.00	0.00	0.00	0.37	12.97	13.75	13.41	14.17	14.61
	6H	0.01	0.68	0.48	1.13	1.60	12.95	13.62	13.41	14.06	14.53
	8H	0.60	1.22	1.07	1.67	2.14	12.93	13.56	13.40	14.00	14.48
	12H	1.16	1.71	1.64	2.19	2.67	12.94	13.49	13.43	13.97	14.45
8H	4H	0.15	0.77	0.62	1.22	1.69	12.85	13.48	13.32	13.92	14.40
	6H	1.71	2.22	2.21	2.72	3.20	12.84	13.35	13.35	13.85	14.33
	8H	2.51	2.96	3.03	3.48	3.97	12.86	13.31	13.38	13.83	14.32
	12H	3.35	3.75	3.86	4.24	4.82	12.92	13.32	13.43	13.82	14.39
12H	4H	0.37	0.92	0.86	1.41	1.88	12.81	13.36	13.30	13.85	14.32
	6H	2.08	2.54	2.61	3.06	3.55	12.80	13.25	13.32	13.77	14.26
	8H	3.07	3.48	3.59	3.97	4.54	12.85	13.25	13.36	13.74	14.32