

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: P1062046

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)  
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-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

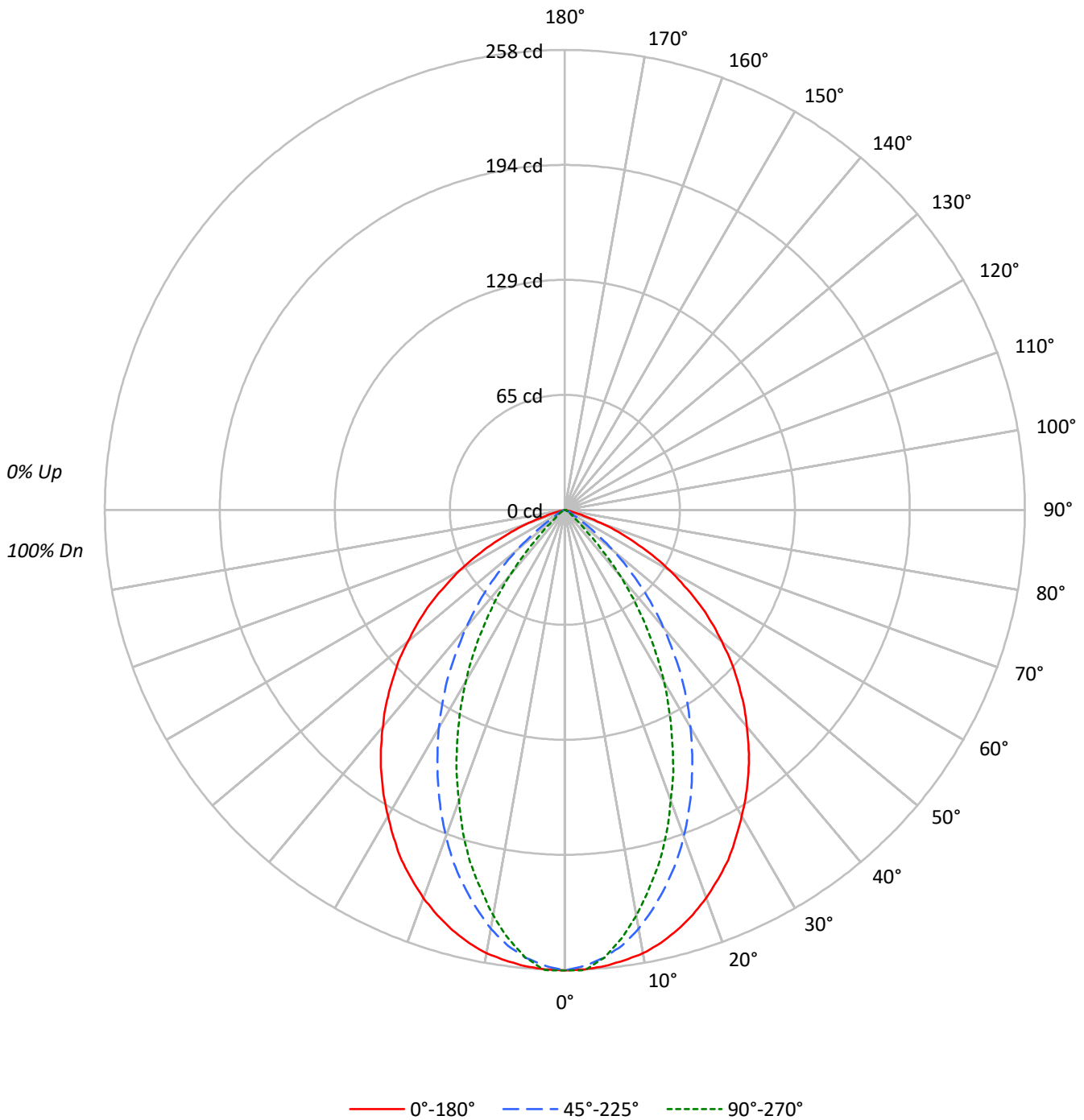
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 333.7 lumens  
Efficiency: N/A  
Efficacy: 28.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97  
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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66				
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54				
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	51	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	53	47	44	42				
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				

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

	0°	45°	90°
0°	1779	1779	1779
5°	1776	1743	1743
10°	1766	1668	1616
15°	1739	1557	1460
20°	1698	1429	1271
25°	1647	1279	1083
30°	1577	1122	883
35°	1510	957	661
40°	1427	772	429
45°	1338	584	186
50°	1231	373	70
55°	1109	163	49
60°	939	70	33
65°	710	44	16
70°	433	20	6
75°	90	8	8
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1338 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.8	7.1
10°-20°	62.1	18.6
20°-30°	79.7	23.9
30°-40°	75.0	22.5
40°-50°	52.5	15.7
50°-60°	28.0	8.4
60°-70°	11.2	3.3
70°-80°	1.4	0.4
80°-90°	0.0	0.0
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°	165.6	49.6
0°-40°	240.6	72.1
0°-60°	321.1	96.2
0°-90°	333.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	333.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	258	258	258	258	258	
5°	257	256	252	253	252	24
15°	244	236	218	208	205	69
25°	217	198	168	150	142	100
35°	180	151	114	88	79	112
45°	137	103	60	29	19	106
55°	92	57	14	5	4	82
65°	44	17	3	1	1	43
75°	3	1	0	0	0	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	258.4	258.4	258.4	258.4	258.4
2.5°	258.0	258.4	256.0	258.0	258.4
5°	257.0	256.3	252.2	252.9	252.2
7.5°	254.9	253.2	246.4	244.0	242.7
10°	252.6	248.8	238.6	233.5	231.1
12.5°	248.8	243.4	229.0	221.2	217.8
15°	244.0	236.2	218.5	208.3	204.8
17.5°	238.2	228.0	207.6	195.0	189.8
20°	231.8	218.1	195.0	180.0	173.5
22.5°	224.3	208.6	182.0	165.3	158.8
25°	216.8	197.7	168.4	150.0	142.5
27.5°	207.6	186.4	154.7	135.0	126.8
30°	198.4	175.2	141.1	119.6	111.1
32.5°	189.2	163.3	127.5	103.6	95.1
35°	179.6	151.0	113.8	87.9	78.7
37.5°	169.4	138.7	99.2	72.9	63.4
40°	158.8	126.8	85.9	58.3	47.7
42.5°	148.6	114.9	72.6	44.0	32.4
45°	137.4	102.9	60.0	29.0	19.1
47.5°	126.8	91.3	47.0	16.7	9.9
50°	114.9	79.4	34.8	8.9	6.5
52.5°	103.6	67.8	23.2	5.8	5.1
55°	92.4	56.6	13.6	4.8	4.1
57.5°	79.4	45.7	7.5	3.7	3.1
60°	68.2	35.8	5.1	2.7	2.4
62.5°	55.2	26.2	3.7	2.0	1.7
65°	43.6	17.4	2.7	1.4	1.0
67.5°	32.4	10.2	1.7	0.7	0.7
70°	21.5	5.5	1.0	0.3	0.3
72.5°	11.2	2.4	0.7	0.3	0.3
75°	3.4	1.0	0.3	0.3	0.3
77.5°	0.0	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	10.95	12.21	11.31	12.52	12.84	0.00	0.00	0.00	0.00	0.00
	3H	11.53	12.64	11.91	12.98	13.34	0.00	0.00	0.00	0.00	0.00
	4H	11.50	12.53	11.90	12.88	13.26	0.00	0.00	0.00	0.00	0.00
	6H	11.41	12.36	11.83	12.73	13.12	0.00	0.00	0.00	0.00	0.00
	8H	11.36	12.26	11.80	12.65	13.05	0.00	0.00	0.00	0.00	0.00
	12H	11.32	12.17	11.75	12.55	12.98	0.00	0.00	0.00	0.00	0.00
4H	2H	10.72	11.75	11.12	12.10	12.49	0.00	0.00	0.00	0.00	0.00
	3H	11.31	12.15	11.73	12.55	12.96	0.00	0.00	0.00	0.00	0.00
	4H	11.26	12.00	11.70	12.43	12.87	0.00	0.00	0.00	0.00	0.00
	6H	11.18	11.81	11.64	12.26	12.73	0.00	0.00	0.00	0.00	0.00
	8H	11.12	11.71	11.59	12.16	12.63	0.00	0.00	0.00	0.00	0.00
	12H	11.06	11.59	11.55	12.07	12.55	0.00	0.00	0.00	0.00	0.00
8H	4H	11.12	11.71	11.59	12.16	12.63	0.00	0.00	0.00	0.00	0.00
	6H	11.01	11.49	11.51	11.99	12.47	0.00	0.00	0.00	0.00	0.00
	8H	10.94	11.37	11.47	11.89	12.38	0.00	0.00	0.00	0.00	0.00
	12H	10.89	11.27	11.41	11.77	12.34	0.00	0.00	0.00	0.00	0.00
12H	4H	11.06	11.59	11.55	12.07	12.55	0.00	0.00	0.00	0.00	0.00
	6H	10.94	11.37	11.47	11.89	12.38	0.00	0.00	0.00	0.00	0.00
	8H	10.89	11.27	11.41	11.77	12.34	0.00	0.00	0.00	0.00	0.00