

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: P1175412

Luminaire Tested: S125RDR-H375D840-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175412  
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: S125RDR-H375D840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

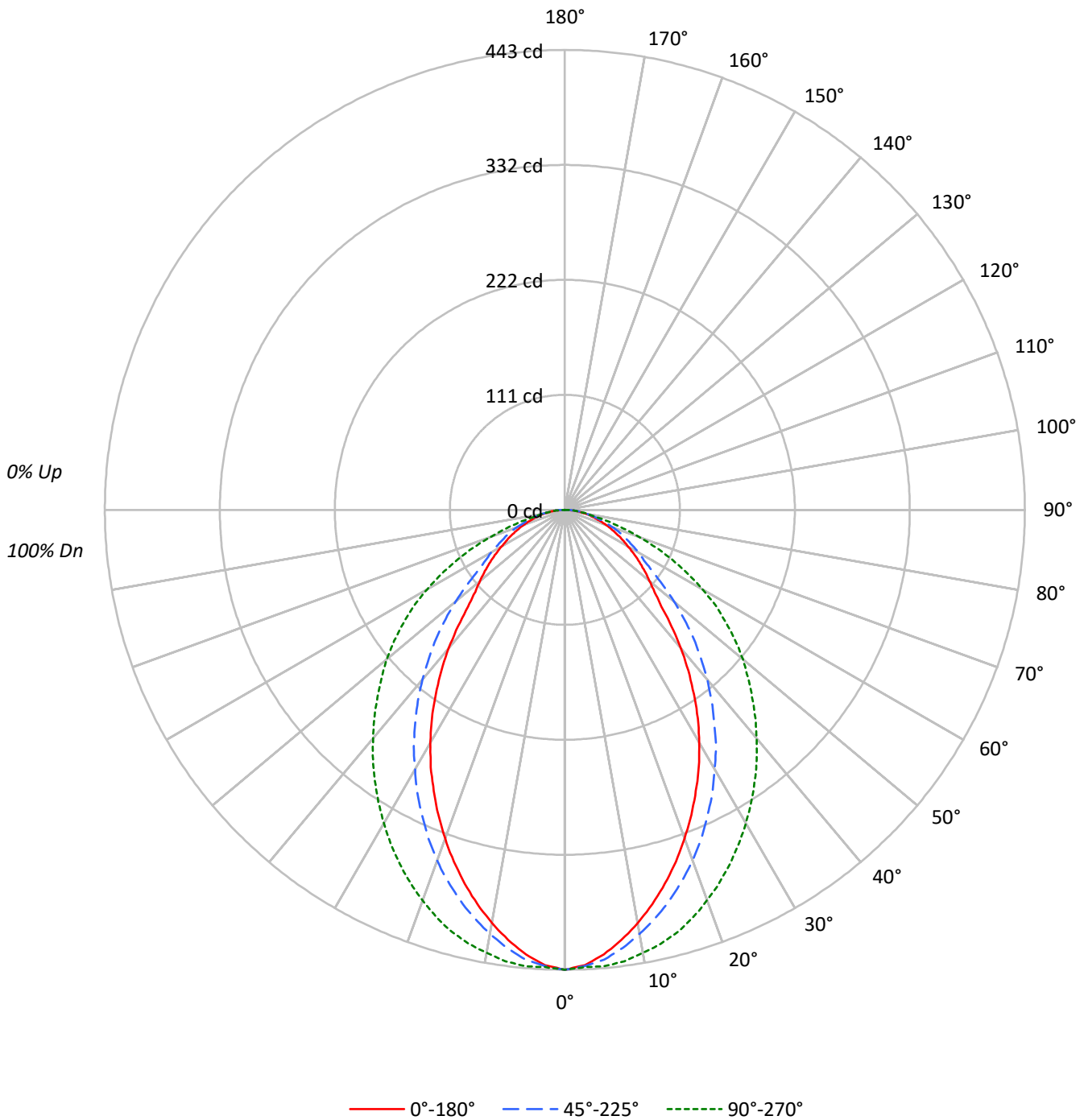
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 834.6 lumens  
Efficiency: N/A  
Efficacy: 71.3 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 (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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

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

	0°	45°	90°
0°	3050	3050	3050
5°	2971	3005	3049
10°	2827	2900	3029
15°	2657	2777	3000
20°	2469	2634	2935
25°	2268	2468	2857
30°	2058	2294	2772
35°	1821	2109	2680
40°	1562	1916	2582
45°	1281	1707	2483
50°	1140	1466	2397
55°	1052	1228	2276
60°	968	1118	2108
65°	901	1054	1862
70°	839	984	1522
75°	790	910	1141
80°	745	837	821
85°	687	829	687

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2483 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	4.9
10°-20°	110.6	13.2
20°-30°	152.1	18.2
30°-40°	161.3	19.3
40°-50°	141.2	16.9
50°-60°	108.3	13.0
60°-70°	72.2	8.6
70°-80°	37.0	4.4
80°-90°	11.0	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°	303.7	36.4
0°-40°	465.0	55.7
0°-60°	714.5	85.6
0°-90°	834.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	430	436	435	438	441	40
15°	373	381	390	408	421	104
25°	299	309	325	352	376	137
35°	217	227	251	288	319	135
45°	132	142	175	219	255	104
55°	88	90	102	152	190	79
65°	55	56	65	85	114	55
75°	30	32	34	36	43	32
85°	9	10	10	10	9	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	443.0	443.0	443.0	443.0	443.0
2.5°	438.9	443.4	440.0	440.4	440.8
5°	429.9	435.5	434.8	437.8	441.2
7.5°	417.8	423.9	425.7	433.3	438.5
10°	404.3	411.1	414.8	426.1	433.3
12.5°	388.9	396.8	402.8	417.5	428.0
15°	372.7	381.4	389.6	408.1	420.8
17.5°	355.4	364.1	375.0	396.0	411.4
20°	337.0	346.4	359.5	382.1	400.5
22.5°	318.2	328.0	343.0	367.8	388.9
25°	298.6	308.8	324.9	352.4	376.1
27.5°	279.4	288.8	307.6	337.0	362.9
30°	258.8	268.5	288.5	320.8	348.6
32.5°	238.1	247.8	270.8	304.6	334.0
35°	216.6	226.8	250.9	287.7	318.9
37.5°	195.2	205.7	232.4	270.4	303.5
40°	173.8	185.0	213.2	253.1	287.3
42.5°	151.9	164.0	193.7	236.2	271.5
45°	131.6	142.5	175.3	218.9	255.0
47.5°	117.0	123.4	155.7	201.2	239.2
50°	106.4	109.4	136.9	184.3	223.8
52.5°	97.0	98.9	118.5	168.5	206.9
55°	87.6	89.5	102.3	151.9	189.6
57.5°	78.6	79.7	90.3	135.4	172.3
60°	70.3	71.1	81.2	118.8	153.1
62.5°	62.8	63.2	72.6	101.9	133.9
65°	55.3	55.7	64.7	85.0	114.3
67.5°	48.5	48.5	57.2	69.6	95.5
70°	41.7	41.7	48.9	56.4	75.6
72.5°	35.7	36.5	41.4	45.5	59.0
75°	29.7	31.6	34.2	36.1	42.9
77.5°	24.1	26.3	27.5	28.2	28.6
80°	18.8	20.3	21.1	21.4	20.7
82.5°	13.9	15.0	15.4	15.4	14.3
85°	8.7	9.8	10.5	10.2	8.7
87.5°	4.1	5.6	6.0	5.3	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)