

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: P1061688

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061688  
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-S610D835-X4F0-XX-UDD-BVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

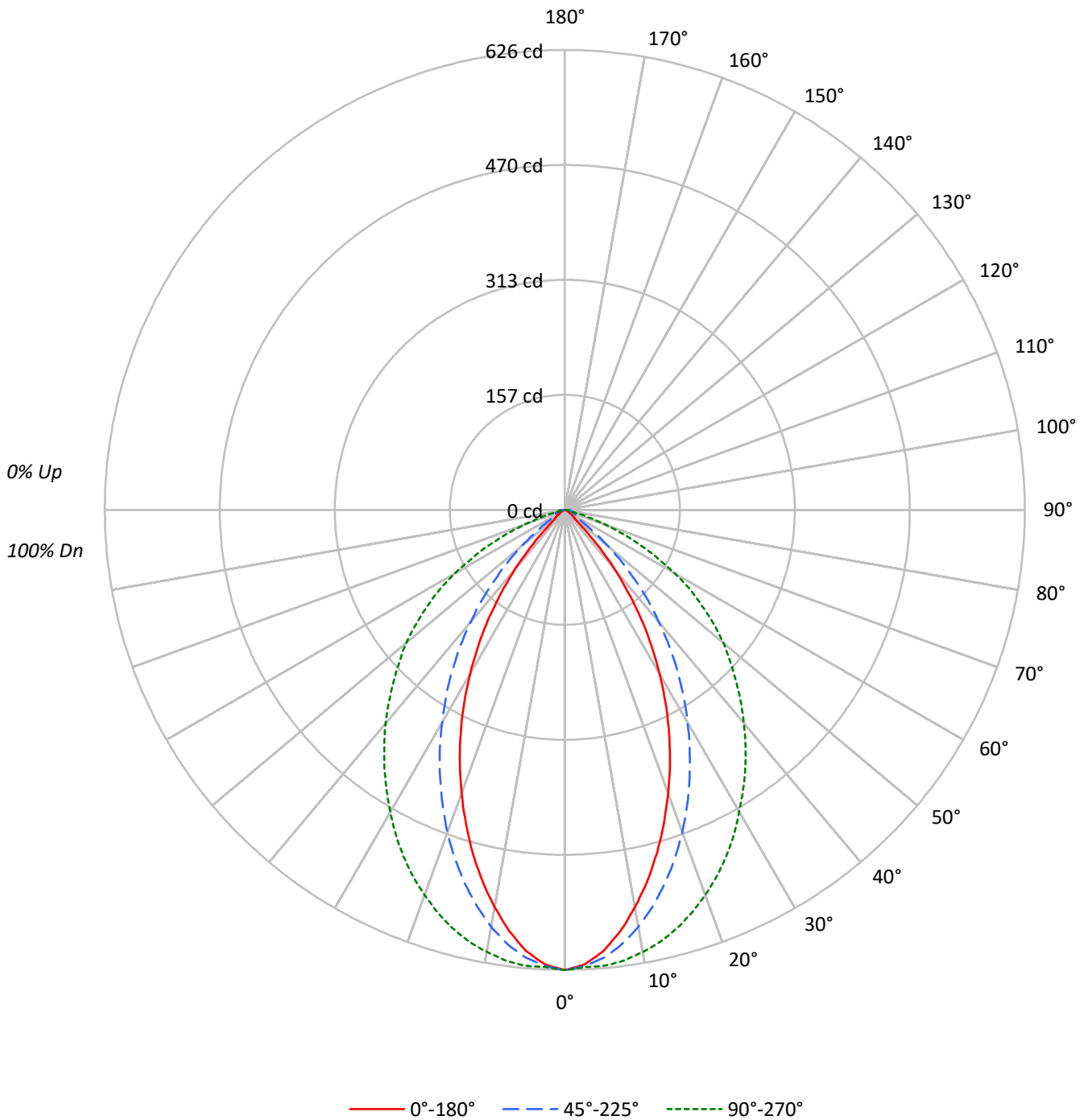
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 810.5 lumens  
Efficiency: N/A  
Efficacy: 41.4 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): 19.6  
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°	4313	4313	4313
5°	4166	4228	4306
10°	3840	4029	4272
15°	3449	3751	4203
20°	3009	3422	4090
25°	2549	3051	3950
30°	2047	2656	3774
35°	1515	2241	3598
40°	938	1790	3409
45°	366	1308	3205
50°	171	821	3020
55°	125	351	2741
60°	87	249	2377
65°	57	261	1849
70°	56	238	1164
75°	74	239	370
80°	111	278	250
85°	166	553	387

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3205 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	7.1
10°-20°	148.9	18.4
20°-30°	189.6	23.4
30°-40°	176.5	21.8
40°-50°	121.5	15.0
50°-60°	68.8	8.5
60°-70°	32.5	4.0
70°-80°	10.2	1.3
80°-90°	5.3	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°	395.9	48.8
0°-40°	572.3	70.6
0°-60°	762.6	94.1
0°-90°	810.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	603	611	612	617	623	56
15°	484	500	526	566	590	135
25°	336	357	402	469	520	153
35°	180	205	267	358	428	111
45°	38	60	134	243	329	35
55°	10	12	29	140	228	10
65°	4	4	16	50	114	4
75°	3	6	9	10	14	3
85°	2	6	7	6	5	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	626.4	626.4	626.4	626.4	626.4
2.5°	619.5	625.7	621.6	622.3	623.0
5°	602.8	611.1	611.8	617.4	623.0
7.5°	578.4	588.9	596.5	609.7	618.8
10°	549.2	561.7	576.3	597.9	611.1
12.5°	517.9	532.5	552.7	583.3	602.1
15°	483.8	499.8	526.2	565.9	589.6
17.5°	447.6	465.7	497.7	545.0	574.9
20°	410.7	430.2	467.0	521.3	558.2
22.5°	373.8	394.0	435.0	495.6	540.1
25°	335.5	357.1	401.6	469.1	519.9
27.5°	296.5	318.8	368.2	442.0	498.4
30°	257.5	281.2	334.1	414.1	474.7
32.5°	219.3	242.9	300.7	386.3	451.7
35°	180.3	205.3	266.6	357.8	428.1
37.5°	141.3	168.4	233.2	328.5	403.7
40°	104.4	130.2	199.1	300.0	379.3
42.5°	69.6	94.7	168.4	271.5	354.3
45°	37.6	59.9	134.3	242.9	329.2
47.5°	20.2	32.0	105.1	215.1	304.9
50°	16.0	18.1	76.6	189.3	281.9
52.5°	13.2	14.6	50.1	165.0	255.4
55°	10.4	11.8	29.2	139.9	228.3
57.5°	8.4	9.7	18.8	116.2	201.9
60°	6.3	7.7	18.1	93.3	172.6
62.5°	4.9	5.6	16.7	71.7	142.0
65°	3.5	4.2	16.0	50.1	113.5
67.5°	2.8	3.5	14.6	32.0	84.9
70°	2.8	2.8	11.8	20.9	57.8
72.5°	2.8	4.9	10.4	13.9	34.8
75°	2.8	6.3	9.0	9.7	13.9
77.5°	2.8	7.0	7.7	7.7	7.7
80°	2.8	6.3	7.0	7.0	6.3
82.5°	2.8	5.6	6.3	7.0	5.6
85°	2.1	5.6	7.0	6.3	4.9
87.5°	2.1	5.6	6.3	5.6	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)