

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: P1061629

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D850-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

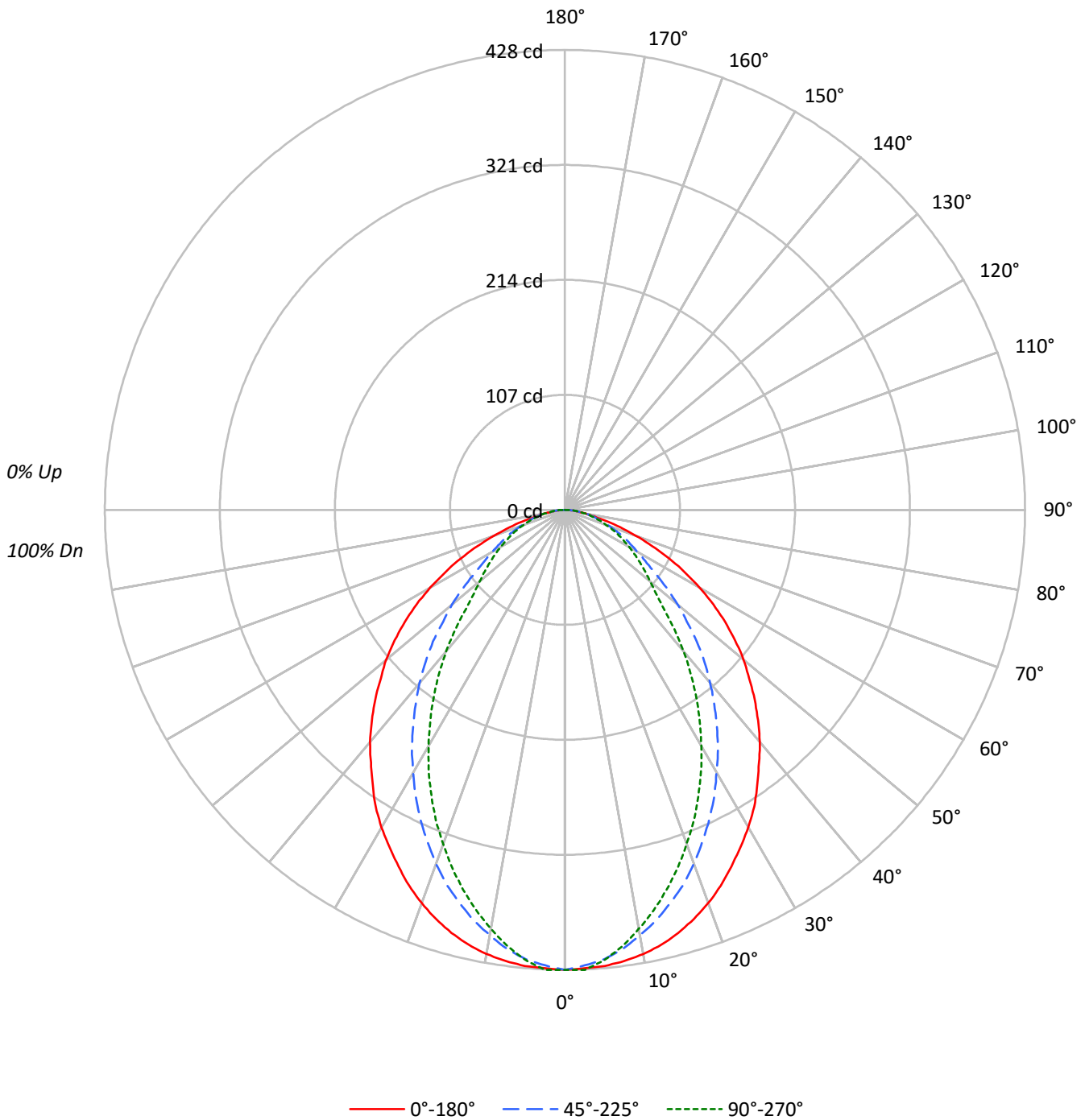
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 810.9 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

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

	0°	45°	90°
0°	2948	2948	2948
5°	2946	2901	2907
10°	2934	2811	2769
15°	2905	2700	2607
20°	2854	2567	2425
25°	2782	2415	2231
30°	2713	2243	2018
35°	2622	2070	1789
40°	2536	1888	1541
45°	2430	1688	1263
50°	2325	1463	1105
55°	2181	1222	1022
60°	1990	1069	954
65°	1742	978	886
70°	1413	880	823
75°	1014	803	766
80°	702	718	718
85°	513	624	664

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2430 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	4.9
10°-20°	107.6	13.3
20°-30°	148.8	18.3
30°-40°	158.5	19.5
40°-50°	139.2	17.2
50°-60°	105.6	13.0
60°-70°	68.5	8.5
70°-80°	34.0	4.2
80°-90°	8.9	1.1
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°	296.2	36.5
0°-40°	454.7	56.1
0°-60°	699.5	86.3
0°-90°	810.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	426	425	420	421	421	40
15°	408	398	379	370	366	115
25°	366	346	318	302	294	169
35°	312	283	246	224	213	195
45°	250	215	173	142	130	192
55°	182	146	102	88	85	162
65°	107	80	60	55	54	106
75°	38	34	30	29	29	43
85°	6	7	8	8	8	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	428.1	428.1	428.1	428.1	428.1
2.5°	427.1	428.1	424.3	427.6	428.5
5°	426.2	425.3	419.7	421.1	420.6
7.5°	423.4	421.6	412.3	411.3	409.5
10°	419.7	415.1	402.0	398.8	396.0
12.5°	414.6	407.1	391.3	384.8	381.6
15°	407.6	398.3	378.8	370.0	365.8
17.5°	399.2	386.2	365.8	353.7	349.1
20°	389.5	374.1	350.4	336.5	330.9
22.5°	378.8	360.7	334.2	319.3	313.3
25°	366.2	346.3	317.9	301.6	293.7
27.5°	353.7	331.4	300.7	282.6	274.2
30°	341.2	315.6	282.1	262.6	253.8
32.5°	327.7	299.3	264.9	243.5	233.3
35°	311.9	283.1	246.3	224.0	212.9
37.5°	296.5	265.9	228.2	203.1	192.4
40°	282.1	249.6	210.1	182.7	171.5
42.5°	265.9	232.4	192.0	163.1	150.6
45°	249.6	214.7	173.4	142.2	129.7
47.5°	232.4	198.0	153.8	123.2	114.8
50°	217.1	180.8	136.6	108.8	103.2
52.5°	199.4	164.1	119.0	97.6	93.9
55°	181.7	145.9	101.8	87.8	85.1
57.5°	163.6	129.7	88.3	79.5	76.7
60°	144.5	112.9	77.6	70.6	69.3
62.5°	125.5	95.7	68.3	63.2	61.4
65°	106.9	79.5	60.0	55.3	54.4
67.5°	87.8	64.6	51.6	48.3	47.9
70°	70.2	52.5	43.7	41.8	40.9
72.5°	53.9	41.8	36.7	35.3	34.9
75°	38.1	33.5	30.2	29.3	28.8
77.5°	25.6	25.6	24.2	23.2	23.7
80°	17.7	18.6	18.1	18.1	18.1
82.5°	11.6	12.5	13.0	13.0	13.0
85°	6.5	7.4	7.9	7.9	8.4
87.5°	2.3	2.8	3.3	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)