

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: P1061533

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061533  
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-S1270D840-X4F0-XX-UDD-BVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

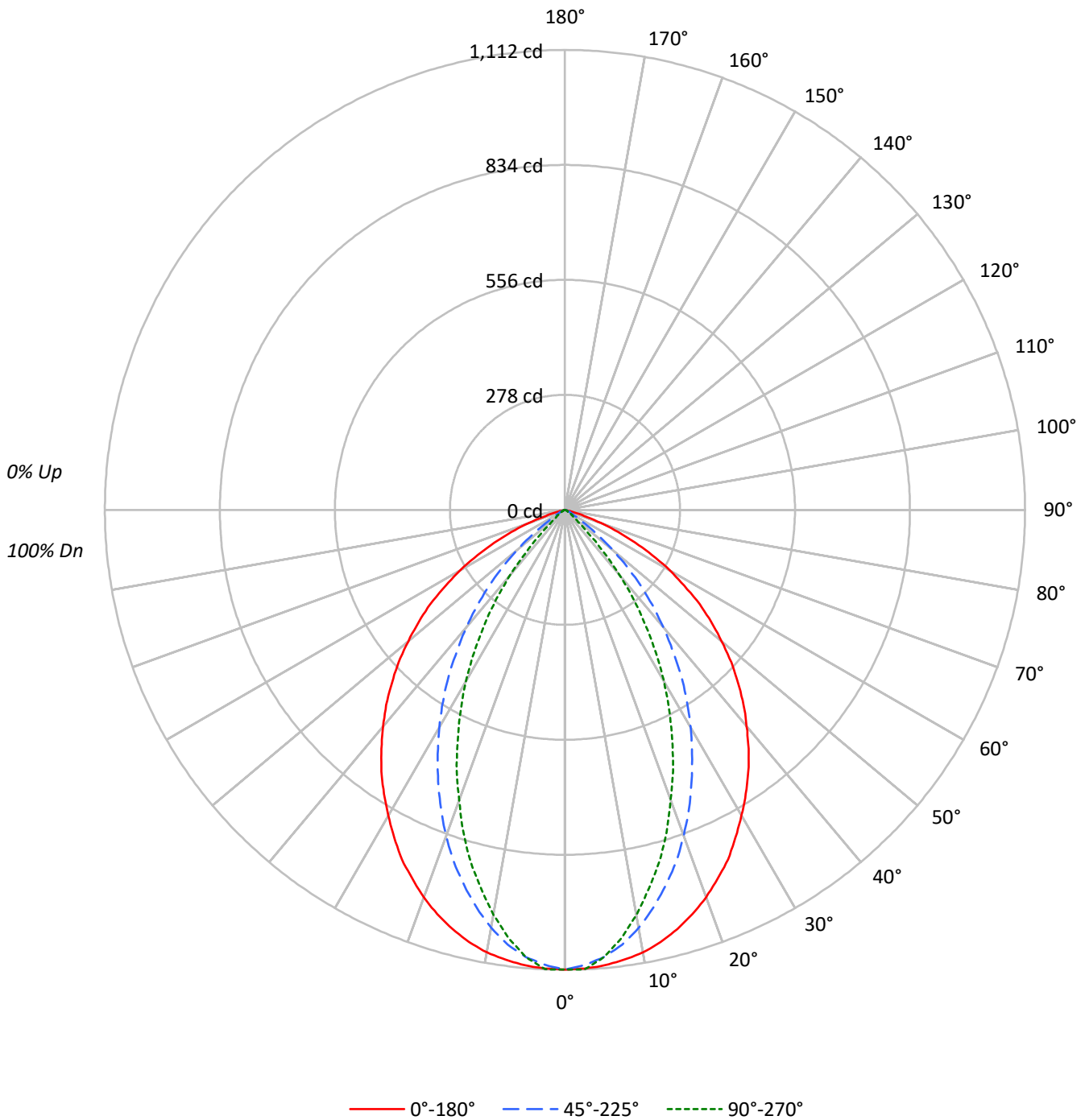
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1436.0 lumens  
Efficiency: N/A  
Efficacy: 34.4 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): 41.8  
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	56	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	52	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°	7654	7654	7654
5°	7642	7500	7500
10°	7597	7177	6951
15°	7485	6700	6282
20°	7307	6146	5469
25°	7086	5503	4657
30°	6786	4827	3801
35°	6496	4117	2847
40°	6142	3321	1845
45°	5755	2513	799
50°	5294	1602	299
55°	4770	705	211
60°	4039	303	142
65°	3058	191	72
70°	1860	89	30
75°	391	40	40
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	7.1
10°-20°	267.1	18.6
20°-30°	343.0	23.9
30°-40°	322.8	22.5
40°-50°	225.7	15.7
50°-60°	120.6	8.4
60°-70°	48.1	3.3
70°-80°	6.2	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°	712.5	49.6
0°-40°	1035.4	72.1
0°-60°	1381.7	96.2
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1106	1103	1085	1088	1085	105
15°	1050	1016	940	896	881	295
25°	933	850	724	645	613	428
35°	773	650	490	378	339	482
45°	591	443	258	125	82	456
55°	397	243	59	20	18	352
65°	188	75	12	6	4	187
75°	15	4	2	2	2	29
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°	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1110.1	1111.6	1101.3	1110.1	1111.6
5°	1105.7	1102.8	1085.2	1088.1	1085.2
7.5°	1096.9	1089.6	1060.2	1050.0	1044.1
10°	1086.6	1070.5	1026.5	1004.5	994.2
12.5°	1070.5	1047.0	985.4	951.7	937.1
15°	1050.0	1016.2	940.0	896.0	881.3
17.5°	1025.0	981.0	893.1	838.8	816.8
20°	997.2	938.5	838.8	774.3	746.4
22.5°	964.9	897.5	783.1	711.2	683.4
25°	932.7	850.5	724.4	645.2	613.0
27.5°	893.1	802.1	665.8	580.7	545.5
30°	853.5	753.7	607.1	514.7	478.1
32.5°	813.9	702.4	548.4	445.8	409.1
35°	772.8	649.6	489.8	378.3	338.7
37.5°	728.8	596.8	426.7	313.8	272.8
40°	683.4	545.5	369.5	250.8	205.3
42.5°	639.4	494.2	312.4	189.2	139.3
45°	591.0	442.9	258.1	124.6	82.1
47.5°	545.5	393.0	202.4	71.9	42.5
50°	494.2	341.7	149.6	38.1	27.9
52.5°	445.8	291.8	99.7	24.9	22.0
55°	397.4	243.4	58.7	20.5	17.6
57.5°	341.7	196.5	32.3	16.1	13.2
60°	293.3	154.0	22.0	11.7	10.3
62.5°	237.6	112.9	16.1	8.8	7.3
65°	187.7	74.8	11.7	5.9	4.4
67.5°	139.3	44.0	7.3	2.9	2.9
70°	92.4	23.5	4.4	1.5	1.5
72.5°	48.4	10.3	2.9	1.5	1.5
75°	14.7	4.4	1.5	1.5	1.5
77.5°	0.0	1.5	0.0	0.0	1.5
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

(END OF REPORT)