

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: P1061521

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061521  
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-S1270D830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

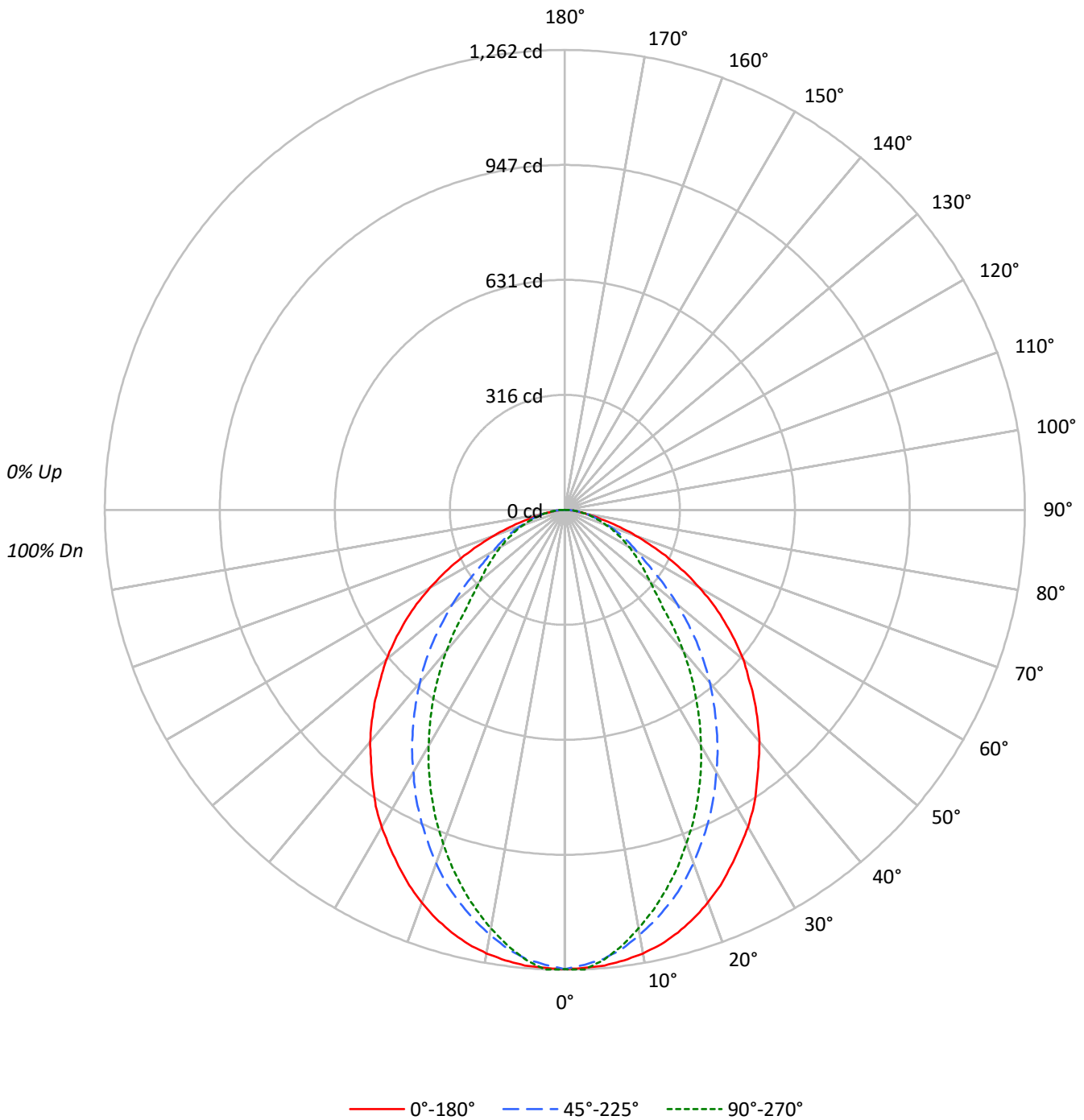
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2388.1 lumens  
Efficiency: N/A  
Efficacy: 57.1 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): 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				100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				30

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

	0°	45°	90°
0°	8680	8680	8680
5°	8675	8543	8561
10°	8641	8277	8153
15°	8557	7951	7678
20°	8404	7562	7140
25°	8194	7112	6571
30°	7987	6605	5941
35°	7719	6097	5269
40°	7467	5561	4540
45°	7157	4971	3719
50°	6847	4310	3255
55°	6425	3599	3007
60°	5862	3148	2808
65°	5129	2877	2608
70°	4161	2591	2424
75°	2985	2368	2259
80°	2062	2117	2117
85°	1517	1841	1943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7157 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	4.9
10°-20°	317.0	13.3
20°-30°	438.2	18.3
30°-40°	466.7	19.5
40°-50°	410.0	17.2
50°-60°	310.9	13.0
60°-70°	201.9	8.5
70°-80°	100.0	4.2
80°-90°	26.2	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°	872.4	36.5
0°-40°	1339.1	56.1
0°-60°	2060.0	86.3
0°-90°	2388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1255	1252	1236	1240	1239	119
15°	1200	1173	1116	1090	1077	338
25°	1079	1020	936	888	865	497
35°	918	834	725	660	627	575
45°	735	632	510	419	382	567
55°	535	430	300	259	250	477
65°	315	234	177	163	160	311
75°	112	98	89	86	85	125
85°	19	22	23	23	25	23
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1260.6	1260.6	1260.6	1260.6	1260.6
2.5°	1257.9	1260.6	1249.6	1259.2	1262.0
5°	1255.1	1252.4	1236.0	1240.1	1238.7
7.5°	1246.9	1241.4	1214.1	1211.3	1205.8
10°	1236.0	1222.3	1183.9	1174.4	1166.2
12.5°	1220.9	1199.0	1152.5	1133.3	1123.7
15°	1200.4	1173.0	1115.5	1089.5	1077.2
17.5°	1175.7	1137.4	1077.2	1041.6	1027.9
20°	1147.0	1101.8	1032.0	991.0	974.5
22.5°	1115.5	1062.1	984.1	940.3	922.5
25°	1078.6	1019.7	936.2	888.3	865.0
27.5°	1041.6	975.9	885.6	832.2	807.5
30°	1004.6	929.4	830.8	773.3	747.3
32.5°	965.0	881.5	780.2	717.2	687.1
35°	918.4	833.6	725.4	659.7	626.9
37.5°	873.2	782.9	672.0	598.1	566.7
40°	830.8	735.0	618.7	537.9	505.1
42.5°	782.9	684.4	565.3	480.4	443.5
45°	735.0	632.4	510.5	418.8	381.9
47.5°	684.4	583.1	453.0	362.7	338.1
50°	639.2	532.4	402.4	320.3	303.9
52.5°	587.2	483.2	350.4	287.4	276.5
55°	535.2	429.8	299.8	258.7	250.5
57.5°	481.8	381.9	260.1	234.1	225.8
60°	425.7	332.6	228.6	208.0	203.9
62.5°	369.6	282.0	201.2	186.1	180.7
65°	314.8	234.1	176.6	162.9	160.1
67.5°	258.7	190.3	151.9	142.3	141.0
70°	206.7	154.7	128.7	123.2	120.4
72.5°	158.8	123.2	108.1	104.0	102.7
75°	112.2	98.5	89.0	86.2	84.9
77.5°	75.3	75.3	71.2	68.4	69.8
80°	52.0	54.7	53.4	53.4	53.4
82.5°	34.2	37.0	38.3	38.3	38.3
85°	19.2	21.9	23.3	23.3	24.6
87.5°	6.8	8.2	9.6	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)