

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: P1061525

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D835-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

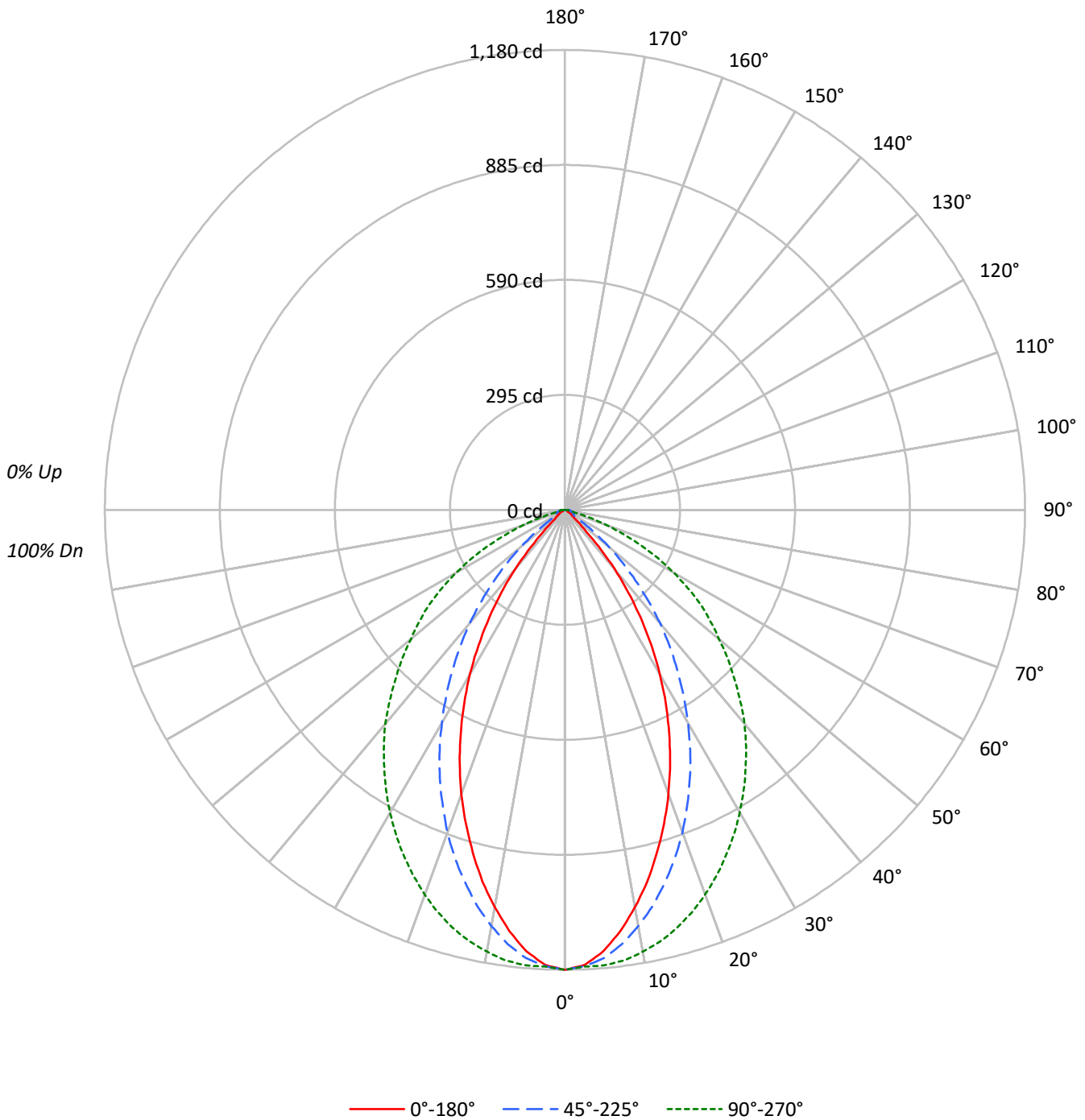
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1518.0 lumens  
Efficiency: N/A  
Efficacy: 36.3 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): 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	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	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

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

	0°	45°	90°
0°	8126	8126	8126
5°	7856	7976	8107
10°	7235	7581	8048
15°	6496	7055	7915
20°	5687	6454	7699
25°	4803	5764	7431
30°	3871	5015	7130
35°	2847	4227	6792
40°	1777	3409	6440
45°	665	2491	5986
50°	312	1556	5527
55°	227	646	5113
60°	160	340	4423
65°	94	402	3504
70°	89	469	2224
75°	117	463	697
80°	174	575	519
85°	348	916	687

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5986 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	7.1
10°-20°	280.2	18.5
20°-30°	356.9	23.5
30°-40°	332.2	21.9
40°-50°	227.6	15.0
50°-60°	125.3	8.3
60°-70°	59.3	3.9
70°-80°	18.7	1.2
80°-90°	9.6	0.6
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°	745.3	49.1
0°-40°	1077.5	71.0
0°-60°	1430.4	94.2
0°-90°	1518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1137	1151	1154	1163	1173	105
15°	911	940	990	1064	1110	254
25°	632	672	759	881	978	289
35°	339	387	503	669	808	210
45°	68	115	256	454	615	65
55°	19	22	54	253	426	17
65°	6	7	25	93	215	7
75°	4	7	17	19	26	5
85°	4	10	12	10	9	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.2	1180.2	1180.2	1180.2	1180.2
2.5°	1168.6	1180.2	1171.5	1171.5	1172.9
5°	1136.6	1151.1	1154.0	1162.7	1172.9
7.5°	1090.1	1109.0	1123.5	1148.2	1165.7
10°	1034.8	1058.1	1084.3	1125.0	1151.1
12.5°	976.7	1001.4	1040.7	1097.3	1133.7
15°	911.3	940.4	989.8	1063.9	1110.4
17.5°	844.4	876.4	937.5	1024.7	1082.8
20°	776.1	809.6	880.8	978.2	1050.8
22.5°	704.9	741.3	819.7	930.2	1016.0
25°	632.2	671.5	758.7	880.8	978.2
27.5°	559.6	600.3	696.2	829.9	938.9
30°	486.9	529.1	630.8	777.6	896.8
32.5°	412.8	459.3	566.8	725.3	853.2
35°	338.7	386.6	502.9	668.6	808.1
37.5°	266.0	315.4	440.4	614.8	763.1
40°	197.7	247.1	379.3	561.0	716.5
42.5°	127.9	180.2	315.4	505.8	665.7
45°	68.3	114.8	255.8	453.5	614.8
47.5°	36.3	61.0	199.1	401.1	566.8
50°	29.1	33.4	145.3	348.8	516.0
52.5°	23.3	26.2	93.0	295.0	470.9
55°	18.9	21.8	53.8	252.9	425.9
57.5°	14.5	17.4	30.5	210.7	373.5
60°	11.6	13.1	24.7	168.6	321.2
62.5°	7.3	10.2	24.7	130.8	268.9
65°	5.8	7.3	24.7	93.0	215.1
67.5°	5.8	5.8	24.7	61.0	161.3
70°	4.4	4.4	23.3	39.2	110.5
72.5°	4.4	4.4	20.3	26.2	64.0
75°	4.4	7.3	17.4	18.9	26.2
77.5°	4.4	11.6	16.0	16.0	14.5
80°	4.4	11.6	14.5	13.1	13.1
82.5°	4.4	11.6	11.6	11.6	10.2
85°	4.4	10.2	11.6	10.2	8.7
87.5°	4.4	10.2	10.2	10.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)