

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: P1061530

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061530  
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-S1270D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

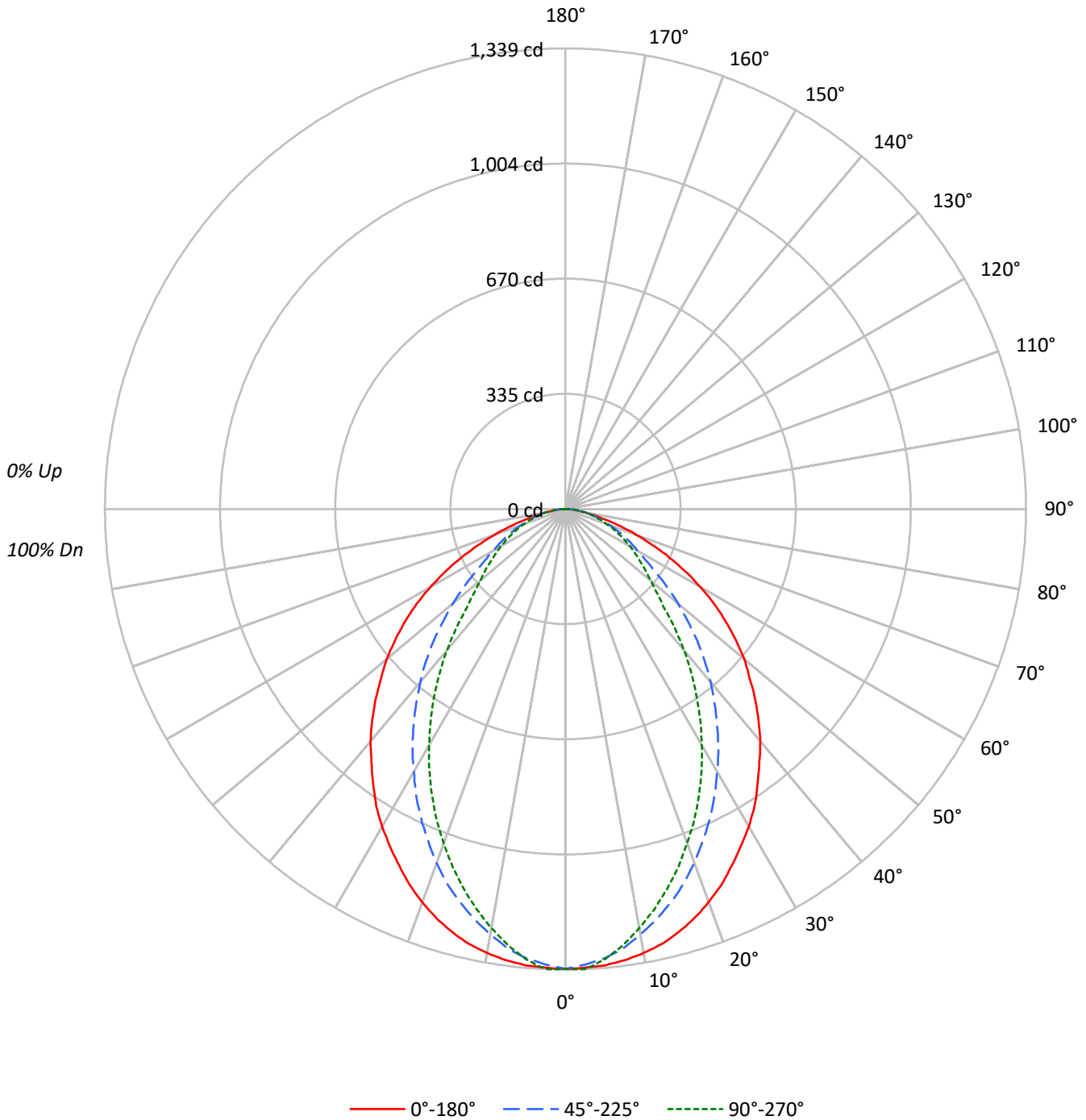
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2533.6 lumens  
Efficiency: N/A  
Efficacy: 60.6 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°	9208	9208	9208
5°	9203	9063	9083
10°	9168	8782	8650
15°	9078	8436	8147
20°	8916	8022	7576
25°	8693	7546	6973
30°	8474	7008	6304
35°	8190	6469	5590
40°	7923	5900	4816
45°	7593	5275	3946
50°	7265	4573	3453
55°	6816	3817	3189
60°	6219	3339	2980
65°	5441	3051	2768
70°	4415	2748	2573
75°	3168	2511	2394
80°	2189	2244	2244
85°	1604	1951	2062

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7593 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	4.9
10°-20°	336.3	13.3
20°-30°	464.9	18.3
30°-40°	495.2	19.5
40°-50°	435.0	17.2
50°-60°	329.8	13.0
60°-70°	214.2	8.5
70°-80°	106.1	4.2
80°-90°	27.8	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°	925.6	36.5
0°-40°	1420.7	56.1
0°-60°	2185.6	86.3
0°-90°	2533.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1332	1329	1311	1316	1314	126
15°	1274	1244	1184	1156	1143	359
25°	1144	1082	993	942	918	527
35°	974	884	770	700	665	610
45°	780	671	542	444	405	601
55°	568	456	318	274	266	507
65°	334	248	187	173	170	330
75°	119	105	94	92	90	133
85°	20	23	25	25	26	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1334.5	1337.4	1325.8	1336.0	1338.9
5°	1331.6	1328.7	1311.3	1315.7	1314.2
7.5°	1322.9	1317.1	1288.1	1285.2	1279.4
10°	1311.3	1296.8	1256.1	1246.0	1237.2
12.5°	1295.3	1272.1	1222.7	1202.4	1192.2
15°	1273.5	1244.5	1183.5	1155.9	1142.9
17.5°	1247.4	1206.7	1142.9	1105.1	1090.6
20°	1216.9	1169.0	1094.9	1051.4	1033.9
22.5°	1183.5	1126.9	1044.1	997.6	978.8
25°	1144.3	1081.9	993.3	942.5	917.8
27.5°	1105.1	1035.4	939.6	882.9	856.8
30°	1065.9	986.0	881.5	820.5	792.9
32.5°	1023.8	935.2	827.7	760.9	729.0
35°	974.4	884.4	769.6	699.9	665.1
37.5°	926.5	830.6	713.0	634.6	601.2
40°	881.5	779.8	656.4	570.7	535.8
42.5°	830.6	726.1	599.7	509.7	470.5
45°	779.8	670.9	541.7	444.4	405.2
47.5°	726.1	618.6	480.7	384.8	358.7
50°	678.2	564.9	426.9	339.8	322.4
52.5°	623.0	512.6	371.8	305.0	293.3
55°	567.8	456.0	318.0	274.5	265.7
57.5°	511.2	405.2	275.9	248.3	239.6
60°	451.6	352.9	242.5	220.7	216.4
62.5°	392.1	299.1	213.5	197.5	191.7
65°	334.0	248.3	187.3	172.8	169.9
67.5°	274.5	201.9	161.2	151.0	149.6
70°	219.3	164.1	136.5	130.7	127.8
72.5°	168.5	130.7	114.7	110.4	108.9
75°	119.1	104.6	94.4	91.5	90.0
77.5°	79.9	79.9	75.5	72.6	74.1
80°	55.2	58.1	56.6	56.6	56.6
82.5°	36.3	39.2	40.7	40.7	40.7
85°	20.3	23.2	24.7	24.7	26.1
87.5°	7.3	8.7	10.2	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)