

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: P1175402

Luminaire Tested: S125RDR-H1270D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H1270D835-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

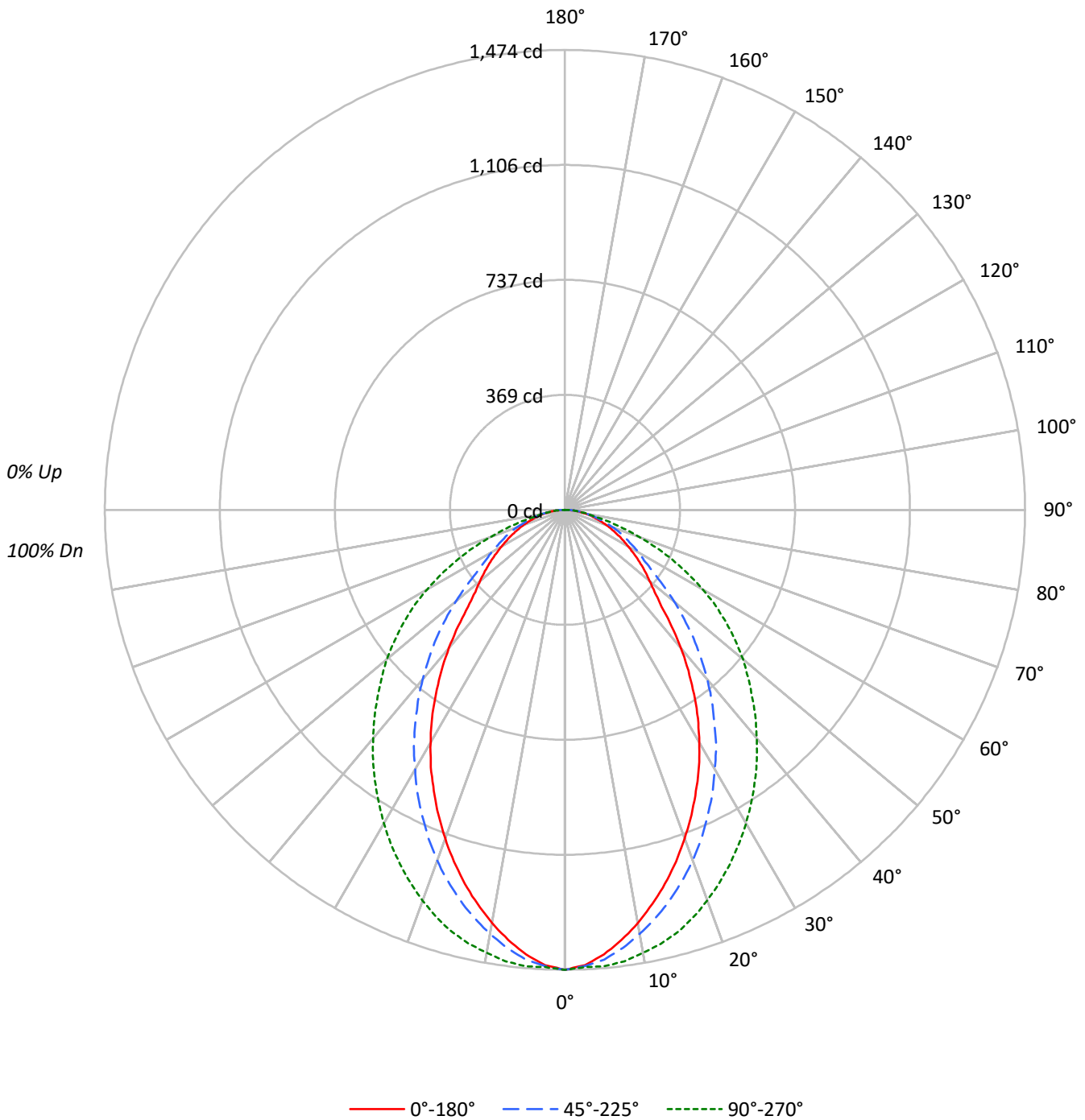
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2777.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.5  
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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°	45°	90°
0°	10150	10150	10150
5°	9886	9998	10145
10°	9405	9650	10078
15°	8840	9241	9981
20°	8215	8765	9765
25°	7548	8213	9506
30°	6844	7631	9222
35°	6059	7015	8919
40°	5196	6377	8593
45°	4265	5678	8261
50°	3793	4879	7975
55°	3500	4086	7571
60°	3222	3722	7013
65°	2996	3506	6197
70°	2796	3275	5063
75°	2631	3030	3796
80°	2482	2780	2728
85°	2275	2765	2275

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8261 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	4.9
10°-20°	367.8	13.2
20°-30°	506.0	18.2
30°-40°	536.7	19.3
40°-50°	469.8	16.9
50°-60°	360.5	13.0
60°-70°	240.1	8.6
70°-80°	123.1	4.4
80°-90°	36.5	1.3
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°	1010.3	36.4
0°-40°	1547.0	55.7
0°-60°	2377.3	85.6
0°-90°	2777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2777.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1430	1449	1446	1456	1468	134
15°	1240	1269	1296	1358	1400	348
25°	994	1027	1081	1172	1251	456
35°	721	754	835	957	1061	449
45°	438	474	583	728	848	346
55°	292	298	340	506	631	261
65°	184	185	215	283	380	183
75°	99	105	114	120	143	105
85°	29	32	35	34	29	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1474.1	1474.1	1474.1	1474.1	1474.1
2.5°	1460.3	1475.3	1464.0	1465.3	1466.6
5°	1430.3	1449.0	1446.5	1456.5	1467.8
7.5°	1390.2	1410.2	1416.5	1441.5	1459.0
10°	1345.2	1367.7	1380.2	1417.7	1441.5
12.5°	1293.9	1320.1	1340.2	1389.0	1424.0
15°	1240.1	1268.8	1296.4	1357.7	1400.2
17.5°	1182.5	1211.3	1247.6	1317.6	1368.9
20°	1121.2	1152.5	1196.3	1271.3	1332.7
22.5°	1058.6	1091.2	1141.2	1223.8	1293.9
25°	993.6	1027.3	1081.1	1172.5	1251.3
27.5°	929.7	961.0	1023.6	1121.2	1207.5
30°	860.9	893.4	959.8	1067.4	1160.0
32.5°	792.1	824.6	901.0	1013.6	1111.2
35°	720.8	754.5	834.6	957.3	1061.1
37.5°	649.4	684.5	773.3	899.7	1009.8
40°	578.1	615.7	709.5	842.1	956.0
42.5°	505.5	545.6	644.4	785.8	903.5
45°	438.0	474.3	583.1	728.3	848.4
47.5°	389.2	410.4	518.0	669.5	795.8
50°	354.1	364.1	455.5	613.1	744.5
52.5°	322.8	329.1	394.2	560.6	688.2
55°	291.6	297.8	340.4	505.5	630.7
57.5°	261.5	265.3	300.3	450.5	573.1
60°	234.0	236.5	270.3	395.4	509.3
62.5°	209.0	210.2	241.5	339.1	445.5
65°	183.9	185.2	215.2	282.8	380.4
67.5°	161.4	161.4	190.2	231.5	317.8
70°	138.9	138.9	162.7	187.7	251.5
72.5°	118.9	121.4	137.6	151.4	196.5
75°	98.9	105.1	113.9	120.1	142.7
77.5°	80.1	87.6	91.3	93.8	95.1
80°	62.6	67.6	70.1	71.3	68.8
82.5°	46.3	50.1	51.3	51.3	47.6
85°	28.8	32.5	35.0	33.8	28.8
87.5°	13.8	18.8	20.0	17.5	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)