

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: P1061569

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061569
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-S1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

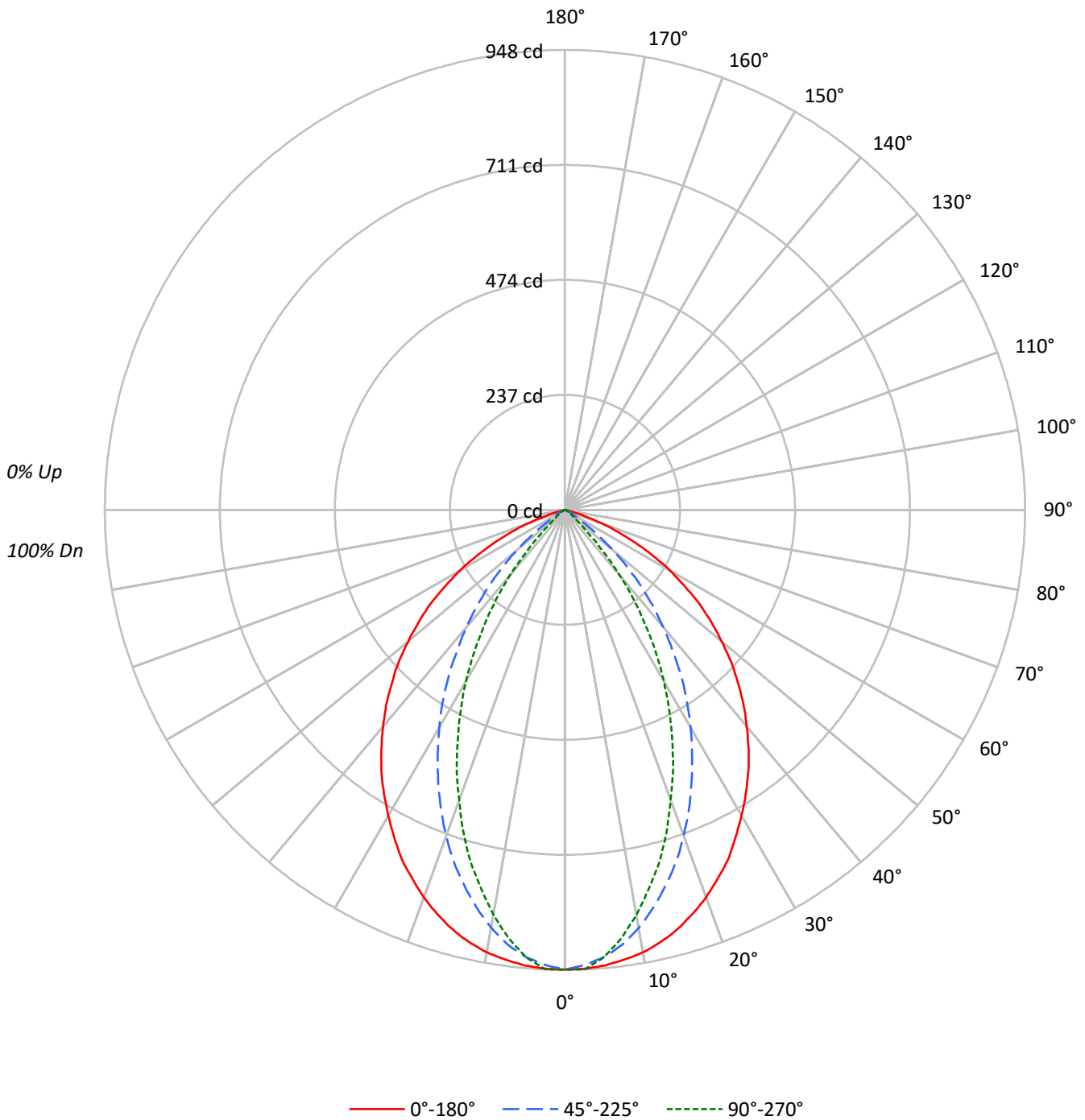
Lumens per Lamp: N/A
Luminaire Lumens: 1224.4 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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	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°	6525	6525	6525
5°	6516	6395	6395
10°	6477	6119	5927
15°	6381	5712	5356
20°	6230	5240	4663
25°	6041	4692	3970
30°	5785	4115	3241
35°	5538	3510	2427
40°	5236	2832	1573
45°	4907	2142	682
50°	4513	1366	255
55°	4067	600	180
60°	3444	259	121
65°	2607	163	62
70°	1586	76	26
75°	333	35	35
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	7.1
10°-20°	227.7	18.6
20°-30°	292.4	23.9
30°-40°	275.3	22.5
40°-50°	192.4	15.7
50°-60°	102.8	8.4
60°-70°	41.0	3.4
70°-80°	5.3	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°	607.5	49.6
0°-40°	882.8	72.1
0°-60°	1178.0	96.2
0°-90°	1224.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	943	940	925	928	925	89
15°	895	866	801	764	751	252
25°	795	725	618	550	523	365
35°	659	554	418	323	289	411
45°	504	378	220	106	70	389
55°	339	208	50	18	15	300
65°	160	64	10	5	4	159
75°	12	4	1	1	1	24
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.7	947.7	947.7	947.7	947.7
2.5°	946.5	947.7	938.9	946.5	947.7
5°	942.7	940.2	925.2	927.7	925.2
7.5°	935.2	928.9	903.9	895.2	890.2
10°	926.4	912.7	875.2	856.4	847.7
12.5°	912.7	892.7	840.2	811.4	798.9
15°	895.2	866.4	801.4	763.9	751.4
17.5°	873.9	836.4	761.4	715.2	696.4
20°	850.2	800.2	715.2	660.1	636.4
22.5°	822.7	765.2	667.6	606.4	582.6
25°	795.2	725.2	617.6	550.1	522.6
27.5°	761.4	683.9	567.6	495.1	465.1
30°	727.7	642.6	517.6	438.8	407.6
32.5°	693.9	598.9	467.6	380.1	348.8
35°	658.9	553.9	417.6	322.6	288.8
37.5°	621.4	508.9	363.8	267.6	232.5
40°	582.6	465.1	315.1	213.8	175.0
42.5°	545.1	421.3	266.3	161.3	118.8
45°	503.9	377.6	220.0	106.3	70.0
47.5°	465.1	335.1	172.5	61.3	36.3
50°	421.3	291.3	127.5	32.5	23.8
52.5°	380.1	248.8	85.0	21.3	18.8
55°	338.8	207.5	50.0	17.5	15.0
57.5°	291.3	167.5	27.5	13.8	11.3
60°	250.1	131.3	18.8	10.0	8.8
62.5°	202.5	96.3	13.8	7.5	6.3
65°	160.0	63.8	10.0	5.0	3.8
67.5°	118.8	37.5	6.3	2.5	2.5
70°	78.8	20.0	3.8	1.3	1.3
72.5°	41.3	8.8	2.5	1.3	1.3
75°	12.5	3.8	1.3	1.3	1.3
77.5°	0.0	1.3	0.0	0.0	1.3
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)