

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: P1061445

Luminaire Tested: S125RDR-S1090D835-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D835-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

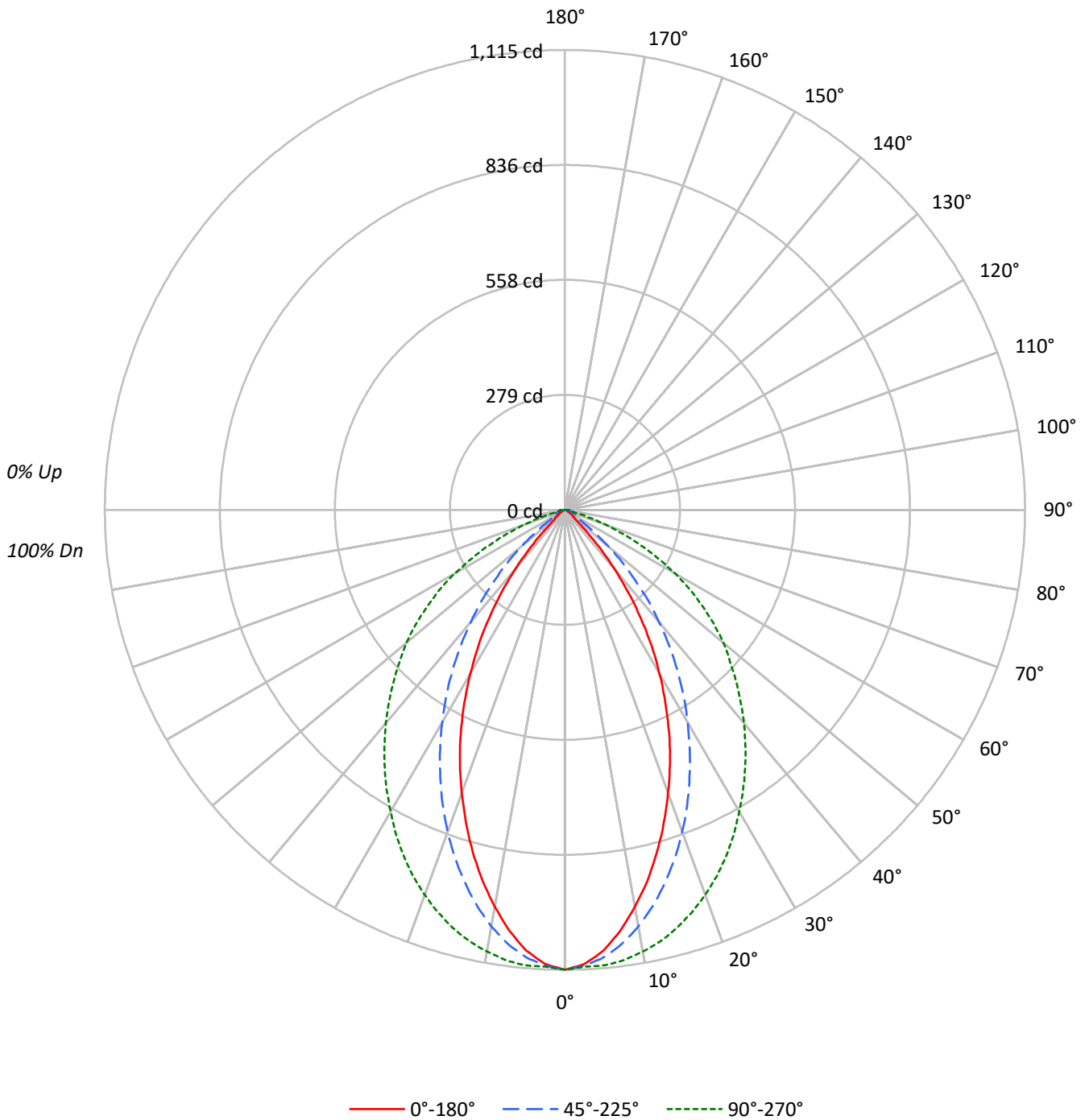
Lumens per Lamp: N/A
Luminaire Lumens: 1442.3 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7676	7676	7676
5°	7414	7525	7662
10°	6833	7170	7603
15°	6136	6675	7478
20°	5355	6090	7279
25°	4535	5430	7030
30°	3644	4727	6716
35°	2696	3987	6403
40°	1670	3184	6068
45°	651	2328	5705
50°	305	1459	5373
55°	223	624	4877
60°	153	443	4230
65°	101	464	3289
70°	101	425	2069
75°	133	428	660
80°	198	492	440
85°	292	980	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	7.1
10°-20°	264.9	18.4
20°-30°	337.4	23.4
30°-40°	314.0	21.8
40°-50°	216.1	15.0
50°-60°	122.4	8.5
60°-70°	57.8	4.0
70°-80°	18.1	1.3
80°-90°	9.4	0.7
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°	704.5	48.8
0°-40°	1018.5	70.6
0°-60°	1357.0	94.1
0°-90°	1442.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1073	1088	1089	1099	1109	99
15°	861	889	936	1007	1049	240
25°	597	635	715	835	925	272
35°	321	365	474	637	762	198
45°	67	106	239	432	586	63
55°	19	21	52	249	406	17
65°	6	7	28	89	202	7
75°	5	11	16	17	25	5
85°	4	10	12	11	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1102.4	1113.5	1106.1	1107.3	1108.6
5°	1072.7	1087.5	1088.8	1098.7	1108.6
7.5°	1029.3	1047.9	1061.5	1085.0	1101.1
10°	977.3	999.6	1025.6	1064.0	1087.5
12.5°	921.5	947.5	983.5	1038.0	1071.4
15°	860.8	889.3	936.4	1007.0	1049.1
17.5°	796.4	828.6	885.6	969.8	1023.1
20°	730.8	765.5	831.1	927.7	993.4
22.5°	665.1	701.1	774.1	881.9	961.2
25°	597.0	635.4	714.7	834.8	925.3
27.5°	527.7	567.3	655.2	786.5	886.9
30°	458.3	500.4	594.5	737.0	844.7
32.5°	390.2	432.3	535.1	687.4	803.9
35°	320.8	365.4	474.4	636.7	761.8
37.5°	251.4	299.7	414.9	584.6	718.4
40°	185.8	231.6	354.2	533.8	675.1
42.5°	123.9	168.5	299.7	483.1	630.5
45°	66.9	106.5	239.1	432.3	585.9
47.5°	35.9	57.0	187.0	382.7	542.5
50°	28.5	32.2	136.2	336.9	501.6
52.5°	23.5	26.0	89.2	293.6	454.6
55°	18.6	21.1	52.0	249.0	406.3
57.5°	14.9	17.3	33.4	206.9	359.2
60°	11.1	13.6	32.2	166.0	307.2
62.5°	8.7	9.9	29.7	127.6	252.7
65°	6.2	7.4	28.5	89.2	201.9
67.5°	5.0	6.2	26.0	57.0	151.1
70°	5.0	5.0	21.1	37.2	102.8
72.5°	5.0	8.7	18.6	24.8	61.9
75°	5.0	11.1	16.1	17.3	24.8
77.5°	5.0	12.4	13.6	13.6	13.6
80°	5.0	11.1	12.4	12.4	11.1
82.5°	5.0	9.9	11.1	12.4	9.9
85°	3.7	9.9	12.4	11.1	8.7
87.5°	3.7	9.9	11.1	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)