

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: P1061436

Luminaire Tested: S125RDR-S1090D830-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061436
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-S1090D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

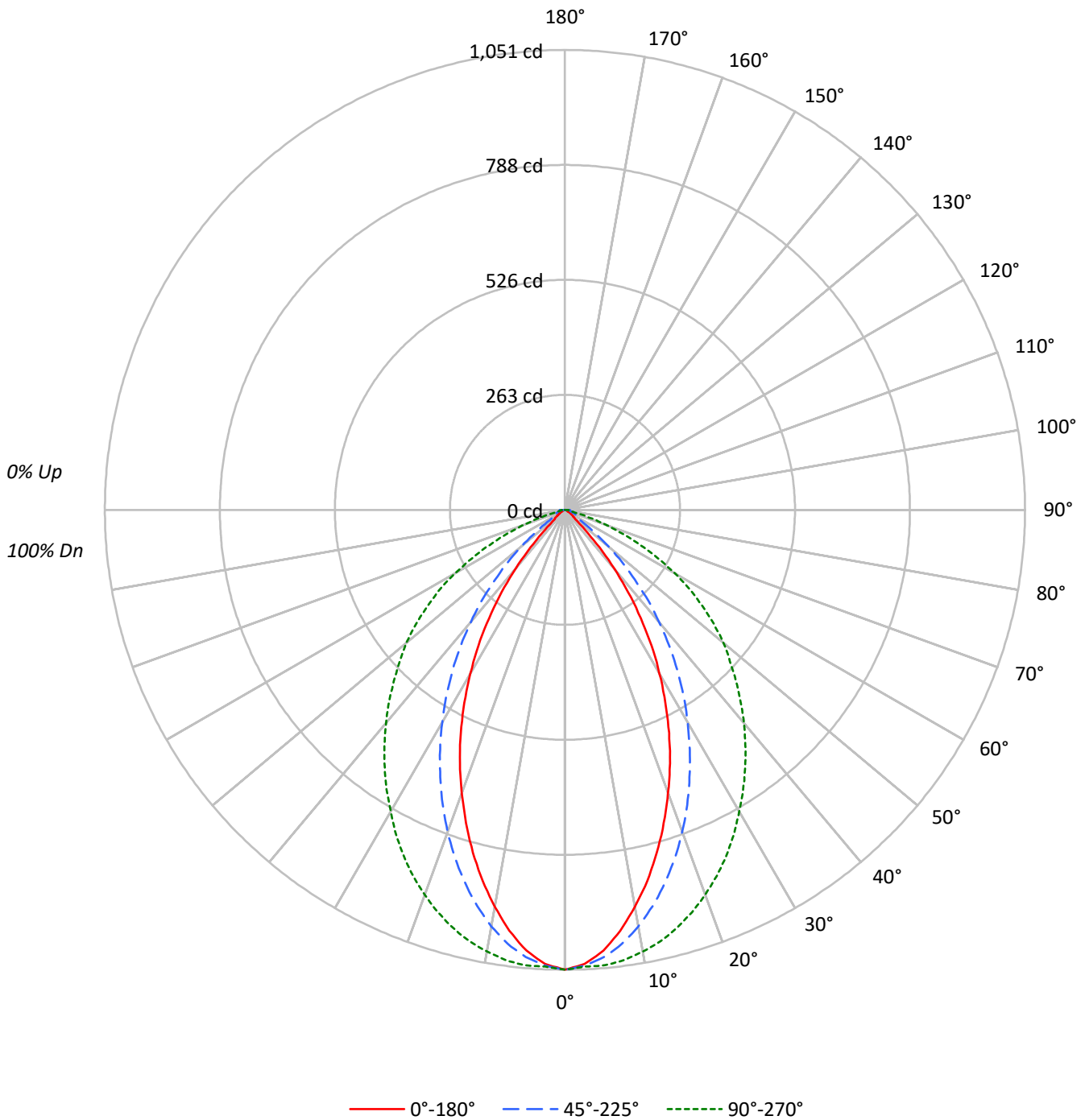
Lumens per Lamp: N/A
Luminaire Lumens: 1359.4 lumens
Efficiency: N/A
Efficacy: 38.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	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	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7234	7234	7234
5°	6988	7093	7222
10°	6440	6759	7166
15°	5784	6291	7048
20°	5047	5740	6860
25°	4275	5117	6625
30°	3435	4455	6330
35°	2542	3758	6035
40°	1574	3001	5719
45°	613	2194	5377
50°	288	1375	5064
55°	210	588	4596
60°	145	419	3987
65°	94	438	3100
70°	95	399	1951
75°	125	404	620
80°	186	464	416
85°	276	924	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	7.1
10°-20°	249.7	18.4
20°-30°	318.0	23.4
30°-40°	296.0	21.8
40°-50°	203.7	15.0
50°-60°	115.3	8.5
60°-70°	54.5	4.0
70°-80°	17.0	1.3
80°-90°	8.9	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°	664.0	48.8
0°-40°	960.0	70.6
0°-60°	1279.0	94.1
0°-90°	1359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1011	1025	1026	1036	1045	94
15°	811	838	883	949	989	226
25°	563	599	674	787	872	257
35°	302	344	447	600	718	187
45°	63	100	225	407	552	59
55°	18	20	49	235	383	16
65°	6	7	27	84	190	6
75°	5	10	15	16	23	5
85°	4	9	12	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1039.0	1049.5	1042.5	1043.7	1044.9
5°	1011.0	1025.0	1026.2	1035.5	1044.9
7.5°	970.2	987.7	1000.5	1022.7	1037.9
10°	921.1	942.1	966.7	1002.8	1025.0
12.5°	868.6	893.1	927.0	978.3	1009.9
15°	811.4	838.2	882.6	949.1	988.8
17.5°	750.7	781.0	834.7	914.1	964.3
20°	688.8	721.5	783.4	874.4	936.3
22.5°	626.9	660.8	729.7	831.2	905.9
25°	562.7	598.9	673.6	786.9	872.1
27.5°	497.3	534.7	617.6	741.3	835.9
30°	432.0	471.7	560.4	694.6	796.2
32.5°	367.7	407.4	504.3	647.9	757.7
35°	302.4	344.4	447.1	600.1	718.0
37.5°	237.0	282.5	391.1	551.0	677.1
40°	175.1	218.3	333.9	503.2	636.3
42.5°	116.7	158.8	282.5	455.3	594.2
45°	63.0	100.4	225.3	407.4	552.2
47.5°	33.9	53.7	176.3	360.7	511.3
50°	26.9	30.4	128.4	317.5	472.8
52.5°	22.2	24.5	84.1	276.7	428.5
55°	17.5	19.8	49.0	234.7	382.9
57.5°	14.0	16.3	31.5	195.0	338.6
60°	10.5	12.8	30.4	156.4	289.5
62.5°	8.2	9.3	28.0	120.2	238.2
65°	5.8	7.0	26.9	84.1	190.3
67.5°	4.7	5.8	24.5	53.7	142.4
70°	4.7	4.7	19.8	35.0	96.9
72.5°	4.7	8.2	17.5	23.3	58.4
75°	4.7	10.5	15.2	16.3	23.3
77.5°	4.7	11.7	12.8	12.8	12.8
80°	4.7	10.5	11.7	11.7	10.5
82.5°	4.7	9.3	10.5	11.7	9.3
85°	3.5	9.3	11.7	10.5	8.2
87.5°	3.5	9.3	10.5	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)