

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: P1061520

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D830-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

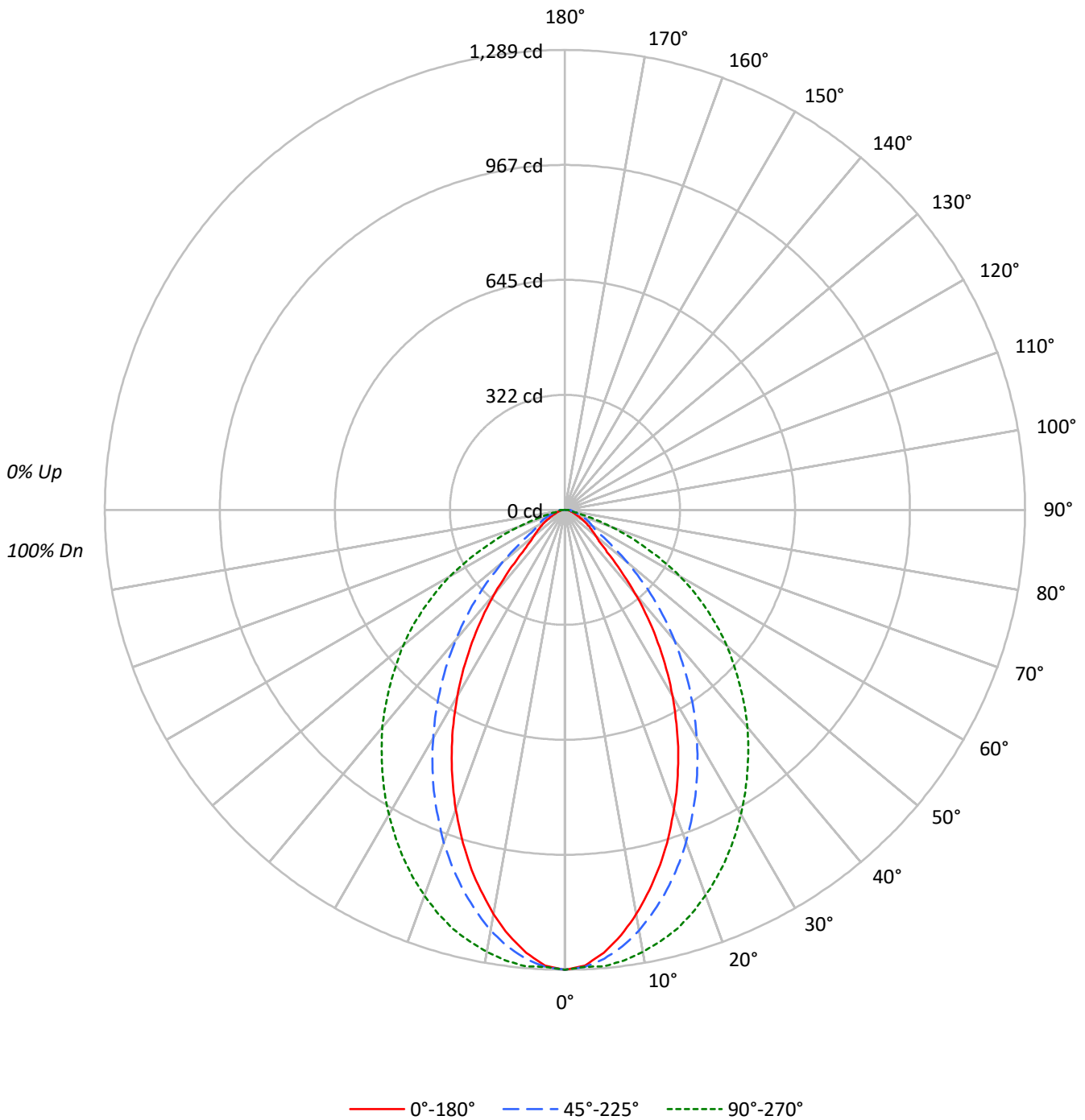
Lumens per Lamp: N/A
Luminaire Lumens: 1867.2 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8876	8876	8876
5°	8616	8730	8872
10°	8045	8371	8792
15°	7343	7861	8661
20°	6545	7267	8431
25°	5703	6598	8159
30°	4792	5871	7841
35°	3811	5101	7496
40°	2746	4285	7154
45°	1627	3401	6736
50°	1203	2421	6339
55°	1019	1497	5805
60°	830	1208	5113
65°	647	1116	4040
70°	552	964	2704
75°	511	838	1093
80°	543	868	761
85°	648	1296	869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	6.4
10°-20°	312.0	16.7
20°-30°	407.9	21.8
30°-40°	397.3	21.3
40°-50°	298.0	16.0
50°-60°	186.8	10.0
60°-70°	97.3	5.2
70°-80°	35.2	1.9
80°-90°	13.9	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°	838.7	44.9
0°-40°	1236.0	66.2
0°-60°	1720.8	92.2
0°-90°	1867.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1247	1263	1263	1273	1284	116
15°	1030	1060	1103	1171	1215	287
25°	751	792	868	986	1074	343
35°	453	501	607	768	892	282
45°	167	216	349	540	692	140
55°	85	89	125	326	484	76
65°	40	42	68	132	248	41
75°	19	26	32	33	41	21
85°	8	14	16	15	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.1	1289.1	1289.1	1289.1	1289.1
2.5°	1278.1	1290.5	1282.3	1282.3	1282.3
5°	1246.6	1263.1	1263.1	1272.7	1283.6
7.5°	1202.8	1222.0	1234.3	1257.6	1274.0
10°	1150.7	1174.0	1197.3	1235.7	1257.6
12.5°	1091.8	1119.2	1152.1	1205.5	1238.4
15°	1030.2	1060.3	1102.8	1171.3	1215.1
17.5°	963.1	998.7	1049.4	1131.6	1185.0
20°	893.2	928.8	991.8	1085.0	1150.7
22.5°	823.3	861.7	930.2	1035.7	1113.8
25°	750.7	791.8	868.5	986.3	1074.0
27.5°	676.7	719.2	804.1	935.7	1030.2
30°	602.8	646.6	738.4	880.9	986.3
32.5°	528.8	575.4	672.6	824.7	939.8
35°	453.4	501.4	606.9	768.5	891.8
37.5°	380.8	428.8	541.1	711.0	843.9
40°	305.5	357.6	476.7	653.5	795.9
42.5°	231.5	284.9	412.3	595.9	743.9
45°	167.1	216.4	349.3	539.8	691.8
47.5°	128.8	156.2	284.9	482.2	641.1
50°	112.3	120.6	226.0	428.8	591.8
52.5°	97.3	102.7	169.9	379.5	538.4
55°	84.9	89.0	124.7	326.0	483.6
57.5°	71.2	76.7	98.6	274.0	427.4
60°	60.3	63.0	87.7	226.0	371.3
62.5°	49.3	52.1	78.1	178.1	308.2
65°	39.7	42.5	68.5	131.5	248.0
67.5°	32.9	34.2	57.5	93.2	190.4
70°	27.4	28.8	47.9	64.4	134.3
72.5°	23.3	27.4	38.4	46.6	84.9
75°	19.2	26.0	31.5	32.9	41.1
77.5°	16.4	24.7	26.0	26.0	23.3
80°	13.7	20.5	21.9	20.5	19.2
82.5°	11.0	16.4	17.8	17.8	15.1
85°	8.2	13.7	16.4	15.1	11.0
87.5°	5.5	12.3	13.7	12.3	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)