

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: P1061534

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D840-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

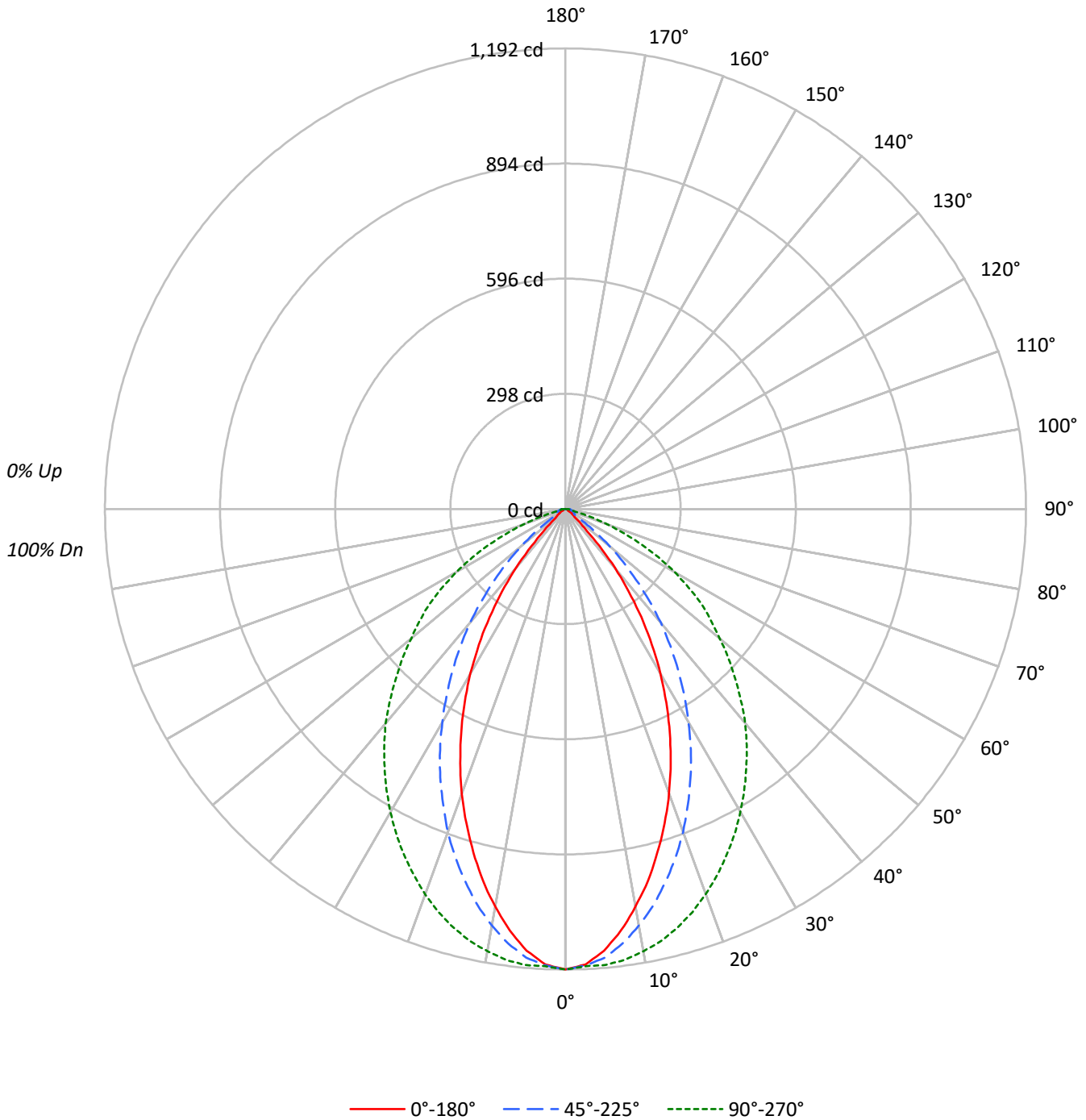
Lumens per Lamp: N/A
Luminaire Lumens: 1532.9 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	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	68	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8206	8206	8206
5°	7933	8055	8187
10°	7307	7656	8128
15°	6560	7125	7993
20°	5743	6517	7776
25°	4851	5821	7504
30°	3909	5064	7200
35°	2875	4269	6860
40°	1794	3443	6504
45°	672	2515	6046
50°	315	1572	5582
55°	229	652	5163
60°	161	344	4467
65°	96	407	3539
70°	89	473	2247
75°	117	468	702
80°	174	583	523
85°	348	924	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6046 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	7.1
10°-20°	282.9	18.5
20°-30°	360.4	23.5
30°-40°	335.5	21.9
40°-50°	229.9	15.0
50°-60°	126.6	8.3
60°-70°	59.9	3.9
70°-80°	18.8	1.2
80°-90°	9.6	0.6
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°	752.7	49.1
0°-40°	1088.1	71.0
0°-60°	1444.6	94.2
0°-90°	1532.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1148	1162	1165	1174	1184	106
15°	920	950	1000	1074	1121	257
25°	638	678	766	890	988	291
35°	342	390	508	675	816	212
45°	69	116	258	458	621	66
55°	19	22	54	255	430	17
65°	6	7	25	94	217	7
75°	4	7	18	19	26	5
85°	4	10	12	10	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1180.1	1191.8	1183.0	1183.0	1184.5
5°	1147.8	1162.5	1165.4	1174.2	1184.5
7.5°	1100.8	1119.9	1134.6	1159.5	1177.2
10°	1045.1	1068.5	1095.0	1136.1	1162.5
12.5°	986.3	1011.3	1050.9	1108.2	1144.9
15°	920.3	949.7	999.6	1074.4	1121.4
17.5°	852.8	885.1	946.7	1034.8	1093.5
20°	783.8	817.6	889.5	987.8	1061.2
22.5°	711.9	748.6	827.8	939.4	1026.0
25°	638.5	678.1	766.2	889.5	987.8
27.5°	565.1	606.2	703.1	838.1	948.2
30°	491.7	534.3	637.0	785.3	905.6
32.5°	416.8	463.8	572.4	732.4	861.6
35°	342.0	390.4	507.9	675.2	816.1
37.5°	268.6	318.5	444.7	620.9	770.6
40°	199.6	249.5	383.1	566.6	723.6
42.5°	129.2	182.0	318.5	510.8	672.2
45°	69.0	116.0	258.3	457.9	620.9
47.5°	36.7	61.6	201.1	405.1	572.4
50°	29.4	33.8	146.8	352.3	521.1
52.5°	23.5	26.4	93.9	298.0	475.6
55°	19.1	22.0	54.3	255.4	430.1
57.5°	14.7	17.6	30.8	212.8	377.2
60°	11.7	13.2	25.0	170.3	324.4
62.5°	7.3	10.3	25.0	132.1	271.5
65°	5.9	7.3	25.0	93.9	217.2
67.5°	5.9	5.9	25.0	61.6	162.9
70°	4.4	4.4	23.5	39.6	111.6
72.5°	4.4	4.4	20.5	26.4	64.6
75°	4.4	7.3	17.6	19.1	26.4
77.5°	4.4	11.7	16.1	16.1	14.7
80°	4.4	11.7	14.7	13.2	13.2
82.5°	4.4	11.7	11.7	11.7	10.3
85°	4.4	10.3	11.7	10.3	8.8
87.5°	4.4	10.3	10.3	10.3	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)