

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: P1175404

Luminaire Tested: S125RDR-H1270D850-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D850-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

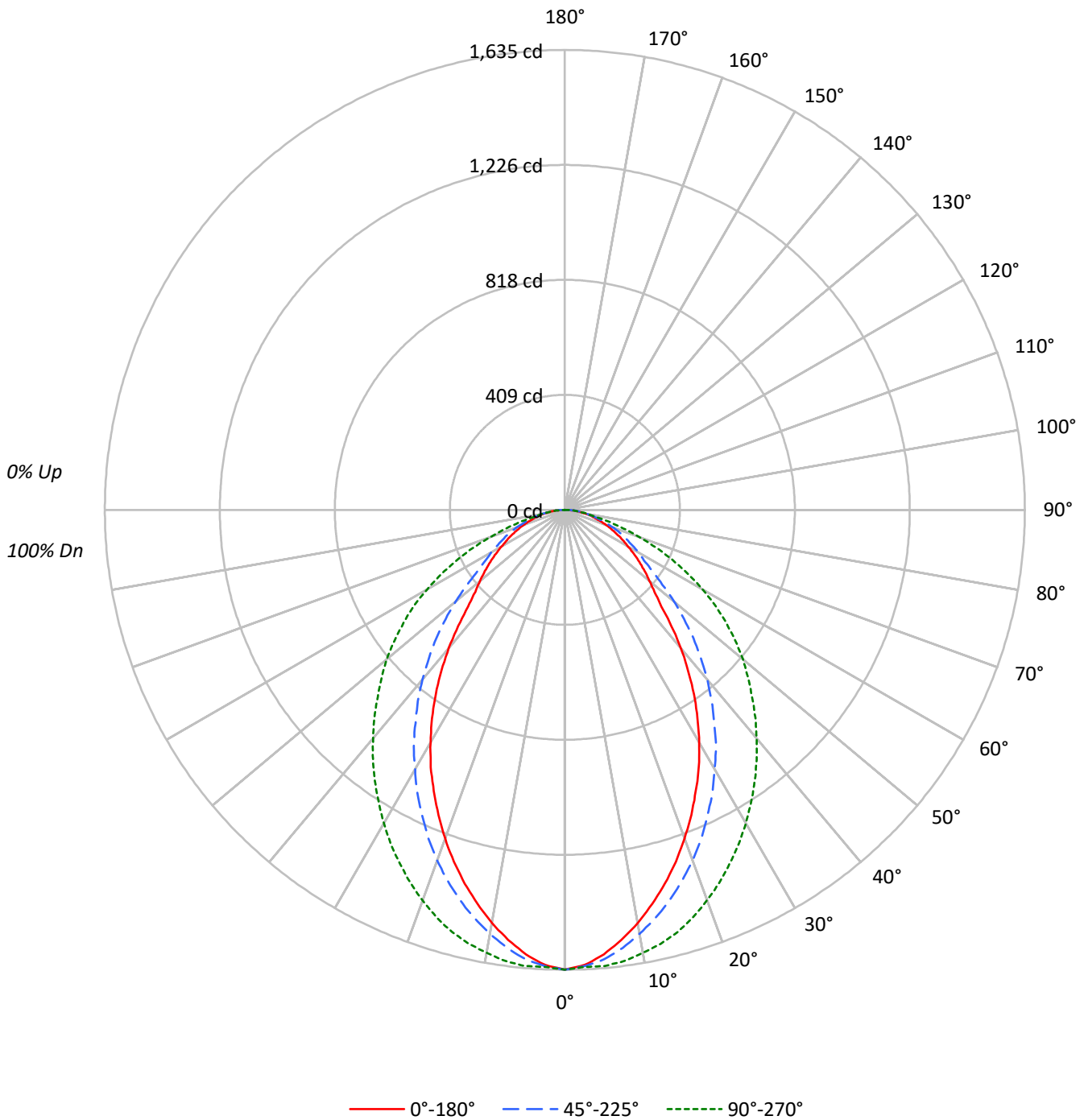
Lumens per Lamp: N/A
Luminaire Lumens: 3079.7 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88				86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76				74	
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58				56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52				50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46				44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11255	11255	11255
5°	10963	11087	11251
10°	10430	10702	11177
15°	9803	10248	11069
20°	9111	9721	10829
25°	8370	9109	10542
30°	7590	8462	10227
35°	6718	7780	9891
40°	5762	7072	9529
45°	4729	6297	9162
50°	4206	5410	8845
55°	3881	4532	8396
60°	3573	4127	7778
65°	3324	3889	6874
70°	3100	3632	5615
75°	2916	3360	4209
80°	2752	3081	3025
85°	2520	3073	2520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	4.9
10°-20°	407.9	13.2
20°-30°	561.2	18.2
30°-40°	595.2	19.3
40°-50°	521.0	16.9
50°-60°	399.7	13.0
60°-70°	266.3	8.6
70°-80°	136.5	4.4
80°-90°	40.5	1.3
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°	1120.5	36.4
0°-40°	1715.7	55.7
0°-60°	2636.4	85.6
0°-90°	3079.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1586	1607	1604	1615	1628	148
15°	1375	1407	1438	1506	1553	385
25°	1102	1139	1199	1300	1388	506
35°	799	837	926	1062	1177	498
45°	486	526	647	808	941	384
55°	323	330	378	561	699	290
65°	204	205	239	314	422	203
75°	110	117	126	133	158	117
85°	32	36	39	38	32	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.7	1634.7	1634.7	1634.7	1634.7
2.5°	1619.5	1636.1	1623.6	1625.0	1626.4
5°	1586.2	1607.0	1604.2	1615.3	1627.8
7.5°	1541.8	1564.0	1570.9	1598.7	1618.1
10°	1491.8	1516.8	1530.7	1572.3	1598.7
12.5°	1434.9	1464.0	1486.2	1540.4	1579.2
15°	1375.2	1407.1	1437.7	1505.7	1552.9
17.5°	1311.4	1343.3	1383.6	1461.3	1518.2
20°	1243.4	1278.1	1326.7	1409.9	1477.9
22.5°	1174.0	1210.1	1265.6	1357.2	1434.9
25°	1101.8	1139.3	1199.0	1300.3	1387.7
27.5°	1031.1	1065.8	1135.2	1243.4	1339.1
30°	954.7	990.8	1064.4	1183.7	1286.4
32.5°	878.4	914.5	999.2	1124.1	1232.3
35°	799.3	836.8	925.6	1061.6	1176.8
37.5°	720.2	759.1	857.6	997.8	1119.9
40°	641.1	682.8	786.8	933.9	1060.2
42.5°	560.6	605.0	714.7	871.5	1001.9
45°	485.7	525.9	646.7	807.7	940.9
47.5°	431.6	455.2	574.5	742.4	882.6
50°	392.7	403.8	505.1	680.0	825.7
52.5°	358.0	365.0	437.1	621.7	763.2
55°	323.3	330.3	377.5	560.6	699.4
57.5°	290.0	294.2	333.1	499.6	635.6
60°	259.5	262.3	299.7	438.5	564.8
62.5°	231.7	233.1	267.8	376.1	494.0
65°	204.0	205.4	238.7	313.6	421.9
67.5°	179.0	179.0	210.9	256.7	352.5
70°	154.0	154.0	180.4	208.2	278.9
72.5°	131.8	134.6	152.6	167.9	217.9
75°	109.6	116.6	126.3	133.2	158.2
77.5°	88.8	97.1	101.3	104.1	105.5
80°	69.4	74.9	77.7	79.1	76.3
82.5°	51.3	55.5	56.9	56.9	52.7
85°	31.9	36.1	38.9	37.5	31.9
87.5°	15.3	20.8	22.2	19.4	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)