

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: P1061548

Luminaire Tested: S125RDR-S1270D850-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D850-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

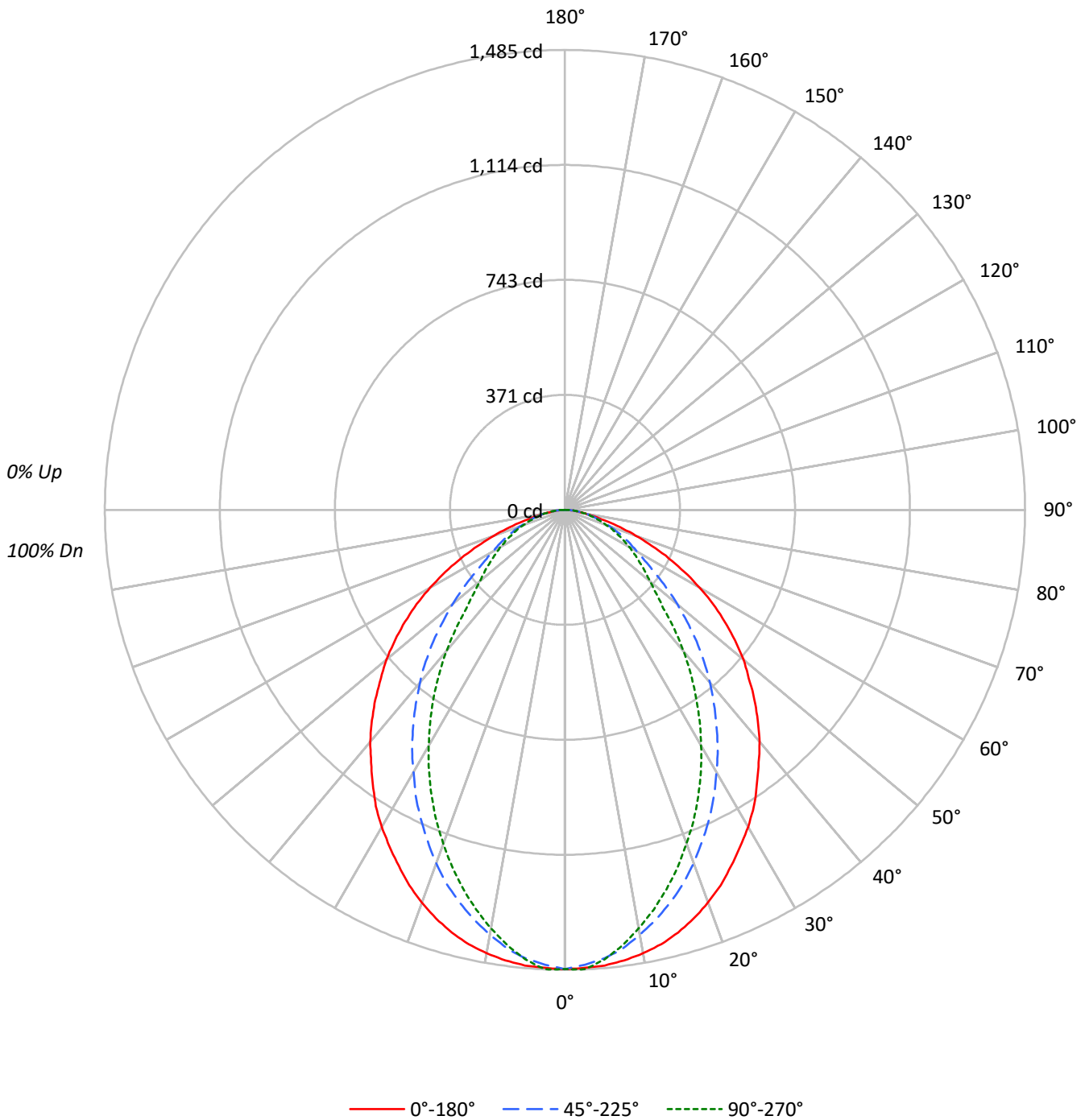
Lumens per Lamp: N/A
Luminaire Lumens: 2809.8 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10212	10212	10212
5°	10207	10051	10074
10°	10167	9739	9593
15°	10068	9356	9034
20°	9889	8897	8401
25°	9641	8368	7732
30°	9398	7772	6991
35°	9083	7174	6200
40°	8786	6542	5342
45°	8421	5849	4375
50°	8056	5072	3829
55°	7559	4234	3538
60°	6898	3703	3305
65°	6035	3384	3069
70°	4896	3048	2853
75°	3514	2785	2655
80°	2427	2490	2490
85°	1777	2165	2291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	4.9
10°-20°	373.0	13.3
20°-30°	515.6	18.3
30°-40°	549.1	19.5
40°-50°	482.4	17.2
50°-60°	365.8	13.0
60°-70°	237.5	8.5
70°-80°	117.7	4.2
80°-90°	30.8	1.1
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°	1026.5	36.5
0°-40°	1575.6	56.1
0°-60°	2423.8	86.3
0°-90°	2809.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1477	1474	1454	1459	1458	140
15°	1412	1380	1312	1282	1267	398
25°	1269	1200	1102	1045	1018	585
35°	1081	981	854	776	738	676
45°	865	744	601	493	449	667
55°	630	506	353	304	295	562
65°	370	275	208	192	188	366
75°	132	116	105	102	100	147
85°	22	26	27	27	29	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.2	1483.2	1483.2	1483.2	1483.2
2.5°	1480.0	1483.2	1470.3	1481.6	1484.8
5°	1476.8	1473.6	1454.2	1459.1	1457.5
7.5°	1467.1	1460.7	1428.5	1425.2	1418.8
10°	1454.2	1438.1	1393.0	1381.8	1372.1
12.5°	1436.5	1410.8	1356.0	1333.5	1322.2
15°	1412.4	1380.2	1312.5	1281.9	1267.4
17.5°	1383.4	1338.3	1267.4	1225.6	1209.4
20°	1349.6	1296.4	1214.3	1166.0	1146.6
22.5°	1312.5	1249.7	1157.9	1106.4	1085.4
25°	1269.0	1199.8	1101.5	1045.2	1017.8
27.5°	1225.6	1148.3	1042.0	979.2	950.2
30°	1182.1	1093.5	977.5	909.9	879.3
32.5°	1135.4	1037.1	918.0	843.9	808.4
35°	1080.6	980.8	853.5	776.2	737.6
37.5°	1027.5	921.2	790.7	703.8	666.7
40°	977.5	864.8	727.9	632.9	594.3
42.5°	921.2	805.2	665.1	565.3	521.8
45°	864.8	744.0	600.7	492.8	449.3
47.5°	805.2	686.1	533.1	426.8	397.8
50°	752.1	626.5	473.5	376.8	357.5
52.5°	690.9	568.5	412.3	338.2	325.3
55°	629.7	505.7	352.7	304.4	294.7
57.5°	566.9	449.3	306.0	275.4	265.7
60°	500.9	391.3	268.9	244.8	240.0
62.5°	434.8	331.8	236.7	219.0	212.6
65°	370.4	275.4	207.7	191.6	188.4
67.5°	304.4	223.9	178.8	167.5	165.9
70°	243.2	182.0	151.4	144.9	141.7
72.5°	186.8	144.9	127.2	122.4	120.8
75°	132.1	116.0	104.7	101.5	99.8
77.5°	88.6	88.6	83.7	80.5	82.1
80°	61.2	64.4	62.8	62.8	62.8
82.5°	40.3	43.5	45.1	45.1	45.1
85°	22.5	25.8	27.4	27.4	29.0
87.5°	8.1	9.7	11.3	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)