

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1175359

Luminaire Tested: S125RDRP-S1270D850-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175359
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: S125RDRP-S1270D850-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

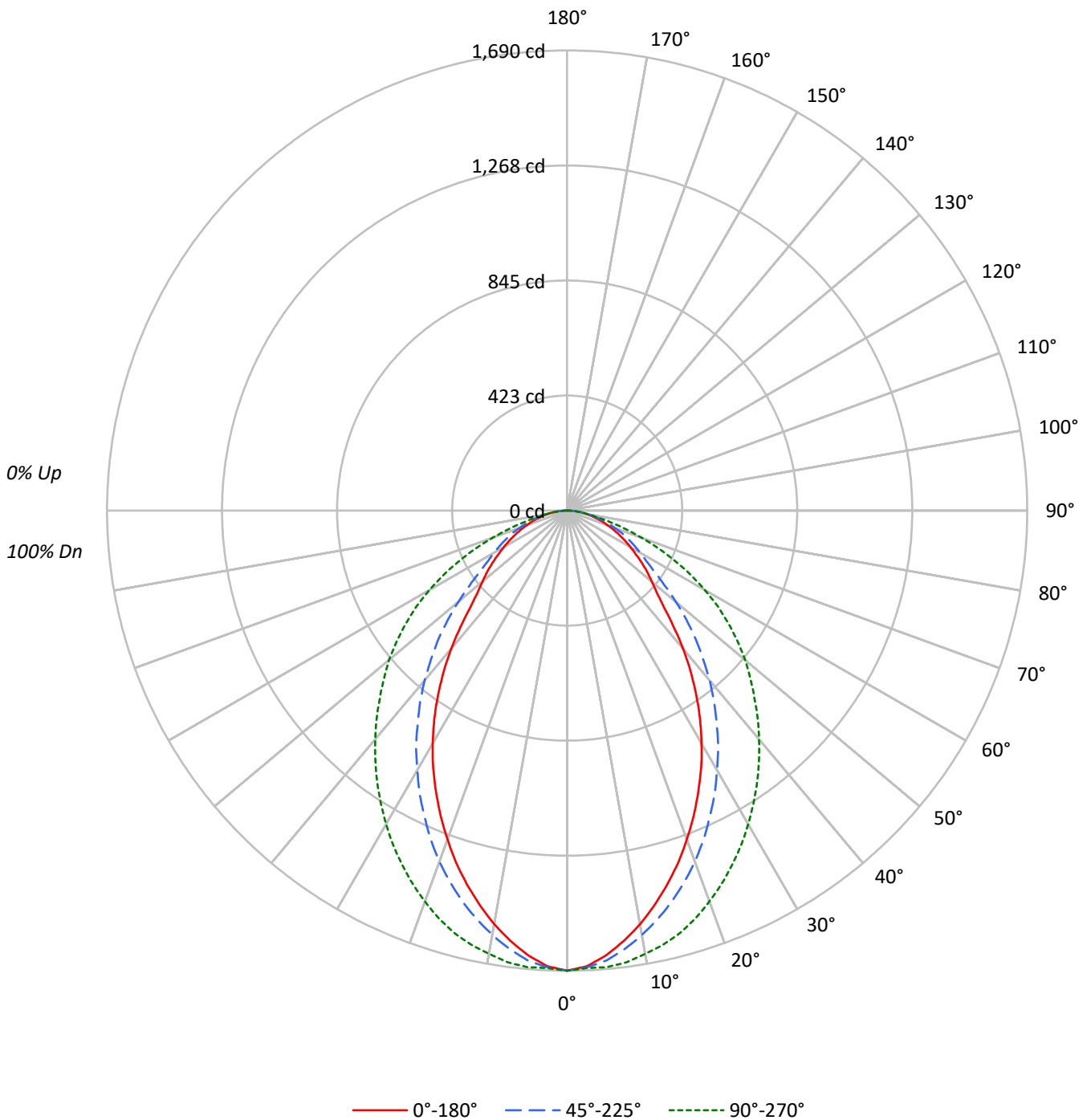
Lumens per Lamp: N/A
Luminaire Lumens: 3183.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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					86			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11635	11635	11635
5°	11333	11462	11631
10°	10782	11063	11554
15°	10134	10594	11443
20°	9418	10049	11194
25°	8654	9417	10899
30°	7847	8748	10573
35°	6945	8043	10225
40°	5957	7311	9851
45°	4889	6509	9470
50°	4349	5594	9143
55°	4013	4684	8679
60°	3695	4267	8041
65°	3436	4019	7105
70°	3205	3754	5806
75°	3014	3472	4350
80°	2843	3184	3128
85°	2607	3176	2607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	4.9
10°-20°	421.7	13.2
20°-30°	580.1	18.2
30°-40°	615.3	19.3
40°-50°	538.6	16.9
50°-60°	413.2	13.0
60°-70°	275.3	8.6
70°-80°	141.1	4.4
80°-90°	41.9	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°	1158.3	36.4
0°-40°	1773.6	55.7
0°-60°	2725.4	85.6
0°-90°	3183.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3183.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1640	1661	1658	1670	1683	153
15°	1422	1455	1486	1556	1605	398
25°	1139	1178	1240	1344	1435	523
35°	826	865	957	1098	1216	515
45°	502	544	668	835	973	397
55°	334	341	390	580	723	300
65°	211	212	247	324	436	210
75°	113	120	130	138	164	120
85°	33	37	40	39	33	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1689.9	1689.9	1689.9	1689.9	1689.9
2.5°	1674.2	1691.4	1678.5	1679.9	1681.3
5°	1639.7	1661.2	1658.4	1669.9	1682.8
7.5°	1593.8	1616.8	1623.9	1652.6	1672.7
10°	1542.2	1568.0	1582.3	1625.4	1652.6
12.5°	1483.4	1513.5	1536.4	1592.4	1632.6
15°	1421.7	1454.7	1486.2	1556.5	1605.3
17.5°	1355.7	1388.7	1430.3	1510.6	1569.4
20°	1285.4	1321.3	1371.5	1457.5	1527.8
22.5°	1213.7	1251.0	1308.3	1403.0	1483.4
25°	1139.1	1177.8	1239.5	1344.2	1434.6
27.5°	1065.9	1101.8	1173.5	1285.4	1384.4
30°	987.0	1024.3	1100.3	1223.7	1329.9
32.5°	908.1	945.4	1032.9	1162.0	1273.9
35°	826.3	865.1	956.9	1097.5	1216.5
37.5°	744.5	784.7	886.6	1031.5	1157.7
40°	662.8	705.8	813.4	965.5	1096.0
42.5°	579.6	625.5	738.8	900.9	1035.8
45°	502.1	543.7	668.5	834.9	972.6
47.5°	446.2	470.5	593.9	767.5	912.4
50°	406.0	417.5	522.2	702.9	853.6
52.5°	370.1	377.3	451.9	642.7	789.0
55°	334.3	341.4	390.2	579.6	723.0
57.5°	299.8	304.1	344.3	516.5	657.0
60°	268.3	271.1	309.9	453.3	583.9
62.5°	239.6	241.0	276.9	388.8	510.7
65°	210.9	212.3	246.7	324.2	436.1
67.5°	185.1	185.1	218.1	265.4	364.4
70°	159.2	159.2	186.5	215.2	288.4
72.5°	136.3	139.2	157.8	173.6	225.2
75°	113.3	120.5	130.5	137.7	163.5
77.5°	91.8	100.4	104.7	107.6	109.0
80°	71.7	77.5	80.3	81.8	78.9
82.5°	53.1	57.4	58.8	58.8	54.5
85°	33.0	37.3	40.2	38.7	33.0
87.5°	15.8	21.5	23.0	20.1	15.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.14	16.64	15.51	16.95	17.27	19.17	20.67	19.53	20.98	21.29
	3H	16.73	18.07	17.11	18.40	18.76	20.55	21.90	20.93	22.23	22.59
	4H	17.37	18.63	17.77	18.98	19.36	20.96	22.22	21.36	22.57	22.95
	6H	17.88	19.04	18.29	19.41	19.80	21.17	22.33	21.58	22.70	23.09
	8H	18.06	19.17	18.49	19.56	19.96	21.22	22.33	21.65	22.72	23.12
	12H	18.19	19.25	18.62	19.63	20.06	21.26	22.32	21.69	22.70	23.13
4H	2H	15.91	17.17	16.31	17.52	17.90	19.30	20.56	19.70	20.91	21.28
	3H	17.69	18.74	18.10	19.14	19.54	20.87	21.91	21.28	22.31	22.71
	4H	18.46	19.40	18.89	19.82	20.26	21.38	22.32	21.81	22.73	23.17
	6H	19.10	19.92	19.56	20.36	20.82	21.70	22.52	22.16	22.96	23.42
	8H	19.33	20.10	19.79	20.54	21.01	21.80	22.57	22.27	23.01	23.48
	12H	19.50	20.19	19.98	20.66	21.14	21.87	22.56	22.36	23.04	23.51
8H	4H	18.84	19.61	19.31	20.05	20.52	21.48	22.24	21.94	22.69	23.15
	6H	19.62	20.25	20.12	20.75	21.22	21.90	22.53	22.39	23.02	23.50
	8H	19.94	20.51	20.45	21.02	21.50	22.05	22.62	22.57	23.13	23.62
	12H	20.20	20.70	20.71	21.19	21.76	22.19	22.69	22.70	23.19	23.75
12H	4H	18.88	19.57	19.37	20.05	20.52	21.47	22.16	21.96	22.64	23.11
	6H	19.70	20.26	20.21	20.77	21.26	21.91	22.48	22.42	22.99	23.47
	8H	20.08	20.58	20.59	21.07	21.64	22.12	22.62	22.63	23.11	23.68