

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: P1061520

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

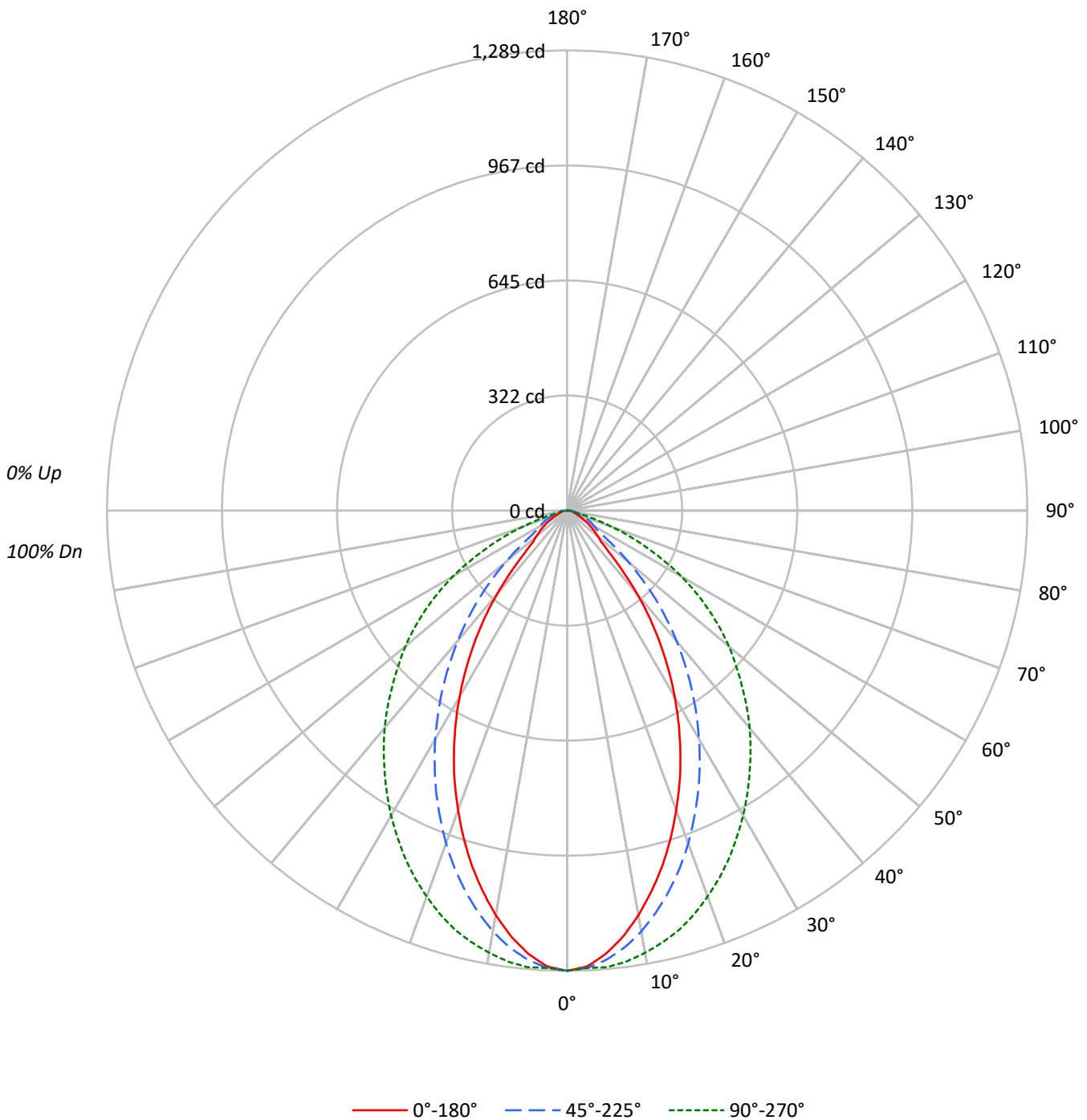
Lumens per Lamp: N/A
Luminaire Lumens: 1867.2 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79					79			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62					62			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					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

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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	7.50	8.85	7.87	9.17	9.48	17.12	18.47	17.48	18.78	19.10
	3H	8.36	9.56	8.74	9.89	10.25	17.96	19.16	18.34	19.49	19.85
	4H	8.78	9.90	9.19	10.25	10.64	18.03	19.15	18.43	19.50	19.88
	6H	9.21	10.24	9.63	10.61	11.00	18.01	19.04	18.43	19.41	19.81
	8H	9.39	10.37	9.82	10.76	11.16	18.00	18.98	18.43	19.37	19.77
	12H	9.55	10.49	9.99	10.87	11.30	17.99	18.92	18.42	19.31	19.74
4H	2H	8.47	9.58	8.87	9.93	10.32	16.98	18.10	17.38	18.45	18.83
	3H	9.52	10.43	9.93	10.84	11.24	17.89	18.81	18.30	19.21	19.61
	4H	10.08	10.90	10.51	11.32	11.76	17.99	18.81	18.43	19.23	19.67
	6H	10.68	11.39	11.14	11.83	12.30	18.02	18.73	18.48	19.17	19.64
	8H	10.92	11.58	11.39	12.03	12.50	18.02	18.68	18.49	19.13	19.60
	12H	11.14	11.73	11.63	12.21	12.69	18.03	18.62	18.52	19.10	19.57
8H	4H	10.55	11.21	11.02	11.66	12.13	17.92	18.58	18.39	19.02	19.49
	6H	11.36	11.90	11.86	12.40	12.88	17.97	18.51	18.47	19.01	19.49
	8H	11.74	12.23	12.26	12.74	13.24	18.00	18.49	18.52	19.00	19.50
	12H	12.14	12.56	12.65	13.06	13.63	18.07	18.50	18.58	18.99	19.56
12H	4H	10.60	11.19	11.09	11.67	12.14	17.88	18.47	18.37	18.95	19.42
	6H	11.49	11.97	12.01	12.49	12.98	17.94	18.42	18.46	18.94	19.43
	8H	11.97	12.40	12.49	12.90	13.47	18.01	18.44	18.52	18.93	19.50