

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: P1175356

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175356
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-S1270D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

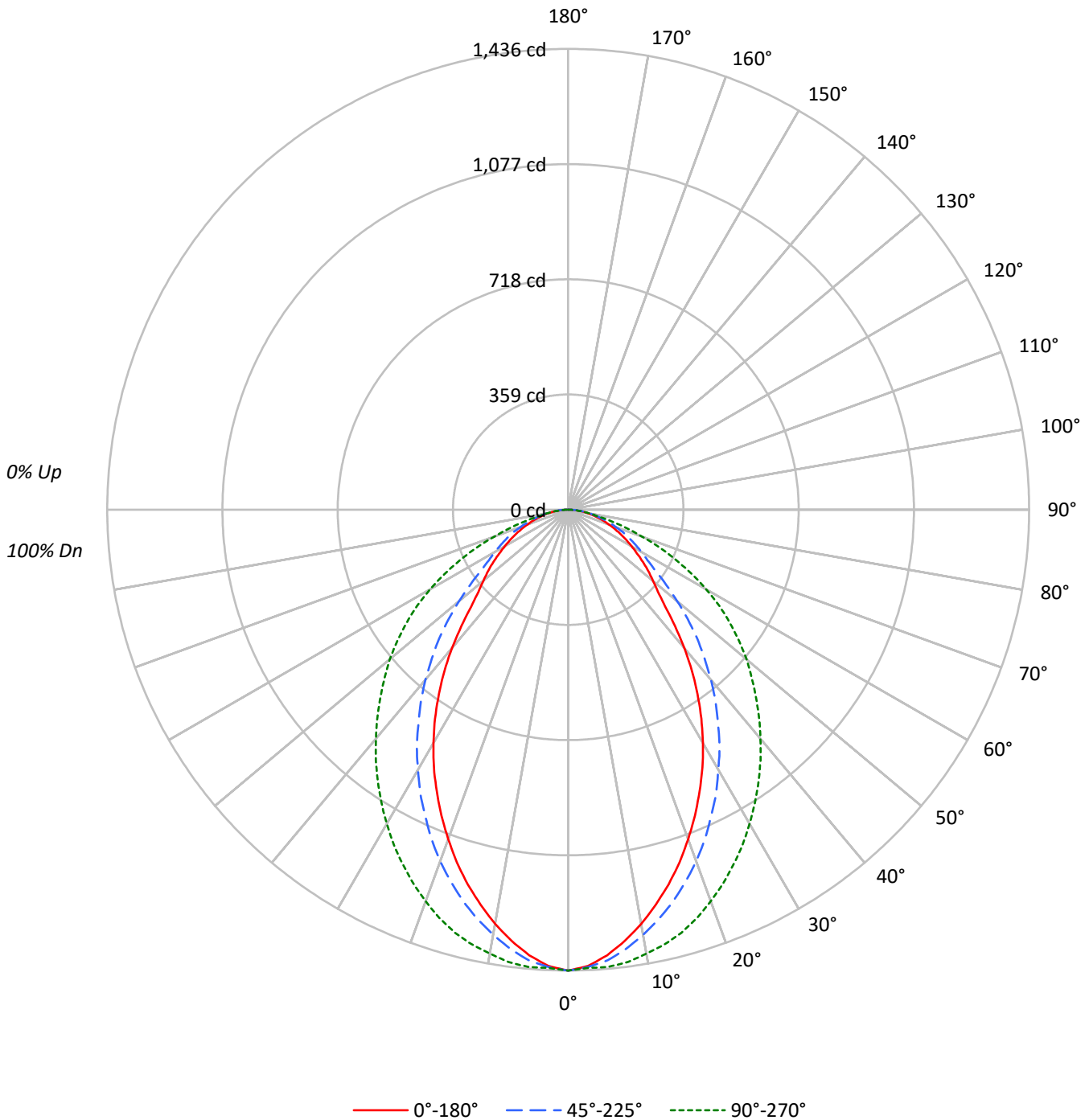
Lumens per Lamp: N/A
Luminaire Lumens: 2705.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1175356

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1175356

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-W

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	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	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°	9889	9889	9889
5°	9632	9742	9885
10°	9164	9402	9820
15°	8613	9004	9725
20°	8005	8540	9514
25°	7355	8003	9263
30°	6669	7435	8986
35°	5903	6835	8690
40°	5063	6213	8372
45°	4155	5533	8050
50°	3695	4754	7771
55°	3410	3981	7376
60°	3140	3627	6833
65°	2920	3416	6039
70°	2724	3191	4934
75°	2562	2953	3698
80°	2419	2708	2661
85°	2212	2694	2212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8050 cd/sqm



TEST NUMBER: P1175356

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	4.9
10°-20°	358.4	13.2
20°-30°	493.1	18.2
30°-40°	523.0	19.3
40°-50°	457.7	16.9
50°-60°	351.2	13.0
60°-70°	234.0	8.6
70°-80°	119.9	4.4
80°-90°	35.6	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°	984.4	36.4
0°-40°	1507.4	55.7
0°-60°	2316.3	85.6
0°-90°	2705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1394	1412	1410	1419	1430	130
15°	1208	1236	1263	1323	1364	339
25°	968	1001	1053	1142	1219	445
35°	702	735	813	933	1034	438
45°	427	462	568	710	827	337
55°	284	290	332	493	614	255
65°	179	180	210	276	371	179
75°	96	102	111	117	139	102
85°	28	32	34	33	28	32
90°	0	0	0	0	0	



TEST NUMBER: P1175356

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1422.9	1437.5	1426.5	1427.8	1429.0
5°	1393.6	1411.9	1409.5	1419.2	1430.2
7.5°	1354.6	1374.1	1380.2	1404.6	1421.7
10°	1310.7	1332.6	1344.8	1381.4	1404.6
12.5°	1260.7	1286.3	1305.8	1353.4	1387.5
15°	1208.3	1236.3	1263.2	1322.9	1364.3
17.5°	1152.2	1180.2	1215.6	1283.9	1333.9
20°	1092.5	1122.9	1165.6	1238.8	1298.5
22.5°	1031.5	1063.2	1112.0	1192.4	1260.7
25°	968.1	1001.0	1053.4	1142.4	1219.3
27.5°	905.9	936.4	997.4	1092.5	1176.6
30°	838.8	870.5	935.2	1040.0	1130.3
32.5°	771.8	803.5	877.9	987.6	1082.7
35°	702.3	735.2	813.2	932.7	1033.9
37.5°	632.8	666.9	753.5	876.6	983.9
40°	563.3	599.9	691.3	820.6	931.5
42.5°	492.6	531.6	627.9	765.7	880.3
45°	426.7	462.1	568.2	709.6	826.7
47.5°	379.2	399.9	504.8	652.3	775.4
50°	345.0	354.8	443.8	597.4	725.5
52.5°	314.6	320.7	384.1	546.2	670.6
55°	284.1	290.2	331.6	492.6	614.5
57.5°	254.8	258.5	292.6	438.9	558.4
60°	228.0	230.4	263.4	385.3	496.2
62.5°	203.6	204.8	235.3	330.4	434.1
65°	179.2	180.5	209.7	275.6	370.7
67.5°	157.3	157.3	185.3	225.6	309.7
70°	135.3	135.3	158.5	182.9	245.1
72.5°	115.8	118.3	134.1	147.5	191.4
75°	96.3	102.4	111.0	117.0	139.0
77.5°	78.0	85.3	89.0	91.4	92.7
80°	61.0	65.8	68.3	69.5	67.1
82.5°	45.1	48.8	50.0	50.0	46.3
85°	28.0	31.7	34.1	32.9	28.0
87.5°	13.4	18.3	19.5	17.1	13.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1175356

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-W

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	14.58	16.08	14.94	16.39	16.70	18.60	20.10	18.97	20.41	20.73
	3H	16.16	17.51	16.54	17.84	18.20	19.99	21.33	20.37	21.66	22.02
	4H	16.81	18.07	17.21	18.42	18.80	20.39	21.66	20.79	22.00	22.38
	6H	17.32	18.48	17.73	18.85	19.24	20.60	21.76	21.01	22.13	22.52
	8H	17.50	18.60	17.92	18.99	19.40	20.66	21.77	21.08	22.16	22.56
	12H	17.62	18.68	18.05	19.07	19.49	20.69	21.75	21.12	22.13	22.56
4H	2H	15.35	16.61	15.75	16.96	17.33	18.73	19.99	19.13	20.34	20.72
	3H	17.13	18.17	17.54	18.57	18.98	20.30	21.35	20.71	21.75	22.15
	4H	17.90	18.84	18.33	19.25	19.69	20.81	21.75	21.24	22.17	22.61
	6H	18.54	19.35	18.99	19.80	20.26	21.14	21.96	21.59	22.40	22.86
	8H	18.76	19.53	19.23	19.97	20.44	21.24	22.00	21.70	22.45	22.91
	12H	18.94	19.62	19.42	20.10	20.57	21.31	21.99	21.79	22.47	22.94
8H	4H	18.28	19.04	18.74	19.49	19.96	20.91	21.68	21.37	22.12	22.59
	6H	19.06	19.69	19.55	20.18	20.66	21.33	21.96	21.83	22.45	22.93
	8H	19.37	19.94	19.89	20.45	20.94	21.49	22.06	22.00	22.57	23.06
	12H	19.63	20.14	20.14	20.63	21.19	21.63	22.13	22.14	22.62	23.19
12H	4H	18.32	19.00	18.80	19.48	19.95	20.91	21.59	21.39	22.07	22.54
	6H	19.13	19.70	19.65	20.21	20.70	21.34	21.91	21.86	22.42	22.91
	8H	19.52	20.02	20.03	20.51	21.07	21.55	22.05	22.06	22.55	23.11