

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: P1061593

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061593
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-S1270D950-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, 90 CRI LEDS
Ballast/Driver: -

Summary

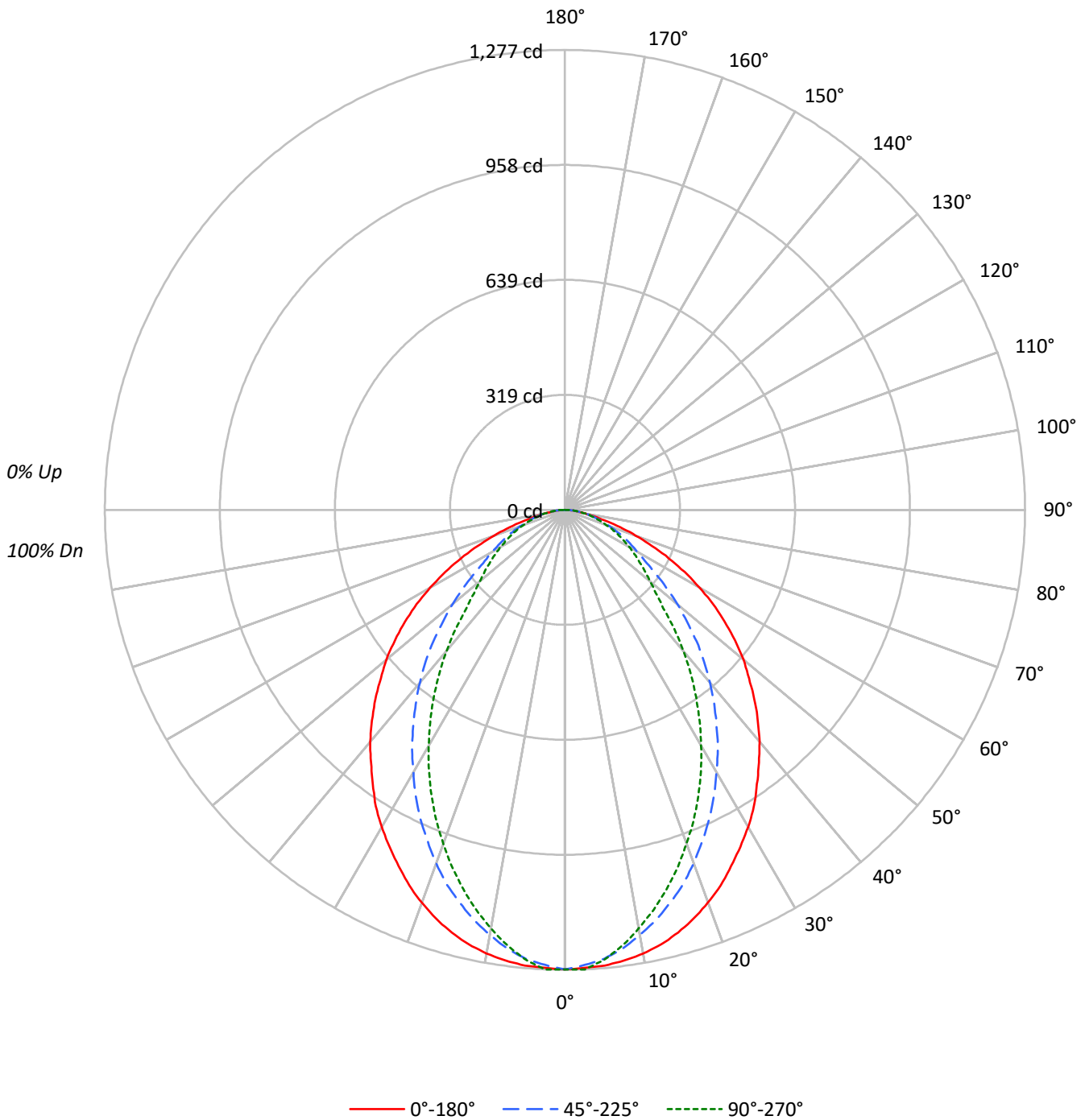
Lumens per Lamp: N/A
Luminaire Lumens: 2417.1 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061593

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061593

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-B

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8785	8785	8785
5°	8780	8646	8666
10°	8746	8378	8252
15°	8661	8048	7772
20°	8506	7654	7227
25°	8294	7199	6652
30°	8085	6685	6014
35°	7814	6171	5333
40°	7558	5628	4595
45°	7244	5031	3763
50°	6930	4363	3295
55°	6503	3642	3043
60°	5932	3186	2842
65°	5191	2911	2641
70°	4211	2621	2454
75°	3022	2394	2285
80°	2086	2141	2141
85°	1533	1864	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7244 cd/sqm



TEST NUMBER: P1061593

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	4.9
10°-20°	320.9	13.3
20°-30°	443.5	18.3
30°-40°	472.4	19.5
40°-50°	415.0	17.2
50°-60°	314.7	13.0
60°-70°	204.3	8.5
70°-80°	101.2	4.2
80°-90°	26.5	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°	883.0	36.5
0°-40°	1355.4	56.1
0°-60°	2085.0	86.3
0°-90°	2417.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1270	1268	1251	1255	1254	121
15°	1215	1187	1129	1103	1090	342
25°	1092	1032	948	899	876	503
35°	930	844	734	668	634	582
45°	744	640	517	424	386	574
55°	542	435	303	262	254	483
65°	319	237	179	165	162	315
75°	114	100	90	87	86	127
85°	19	22	24	24	25	24
90°	0	0	0	0	0	

TEST NUMBER: P1061593

CATALOG NUMBER: S125RDR-S1270D950-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1273.2	1275.9	1264.8	1274.5	1277.3
5°	1270.4	1267.6	1251.0	1255.1	1253.8
7.5°	1262.1	1256.5	1228.8	1226.0	1220.5
10°	1251.0	1237.1	1198.3	1188.6	1180.3
12.5°	1235.7	1213.6	1166.5	1147.1	1137.4
15°	1215.0	1187.3	1129.1	1102.8	1090.3
17.5°	1190.0	1151.2	1090.3	1054.3	1040.4
20°	1160.9	1115.2	1044.6	1003.0	986.4
22.5°	1129.1	1075.0	996.1	951.7	933.7
25°	1091.7	1032.1	947.6	899.1	875.6
27.5°	1054.3	987.8	896.3	842.3	817.4
30°	1016.9	940.7	840.9	782.7	756.4
32.5°	976.7	892.2	789.7	725.9	695.5
35°	929.6	843.7	734.2	667.7	634.5
37.5°	883.9	792.4	680.2	605.4	573.5
40°	840.9	743.9	626.2	544.4	511.2
42.5°	792.4	692.7	572.2	486.3	448.9
45°	743.9	640.0	516.7	423.9	386.5
47.5°	692.7	590.2	458.6	367.1	342.2
50°	647.0	538.9	407.3	324.2	307.6
52.5°	594.3	489.0	354.7	290.9	279.8
55°	541.7	435.0	303.4	261.8	253.5
57.5°	487.6	386.5	263.2	236.9	228.6
60°	430.8	336.6	231.4	210.6	206.4
62.5°	374.0	285.4	203.6	188.4	182.9
65°	318.6	236.9	178.7	164.9	162.1
67.5°	261.8	192.6	153.8	144.1	142.7
70°	209.2	156.5	130.2	124.7	121.9
72.5°	160.7	124.7	109.4	105.3	103.9
75°	113.6	99.7	90.0	87.3	85.9
77.5°	76.2	76.2	72.0	69.3	70.7
80°	52.6	55.4	54.0	54.0	54.0
82.5°	34.6	37.4	38.8	38.8	38.8
85°	19.4	22.2	23.6	23.6	24.9
87.5°	6.9	8.3	9.7	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)