

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: P1061529

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061529
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: S125RDR-S1270D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

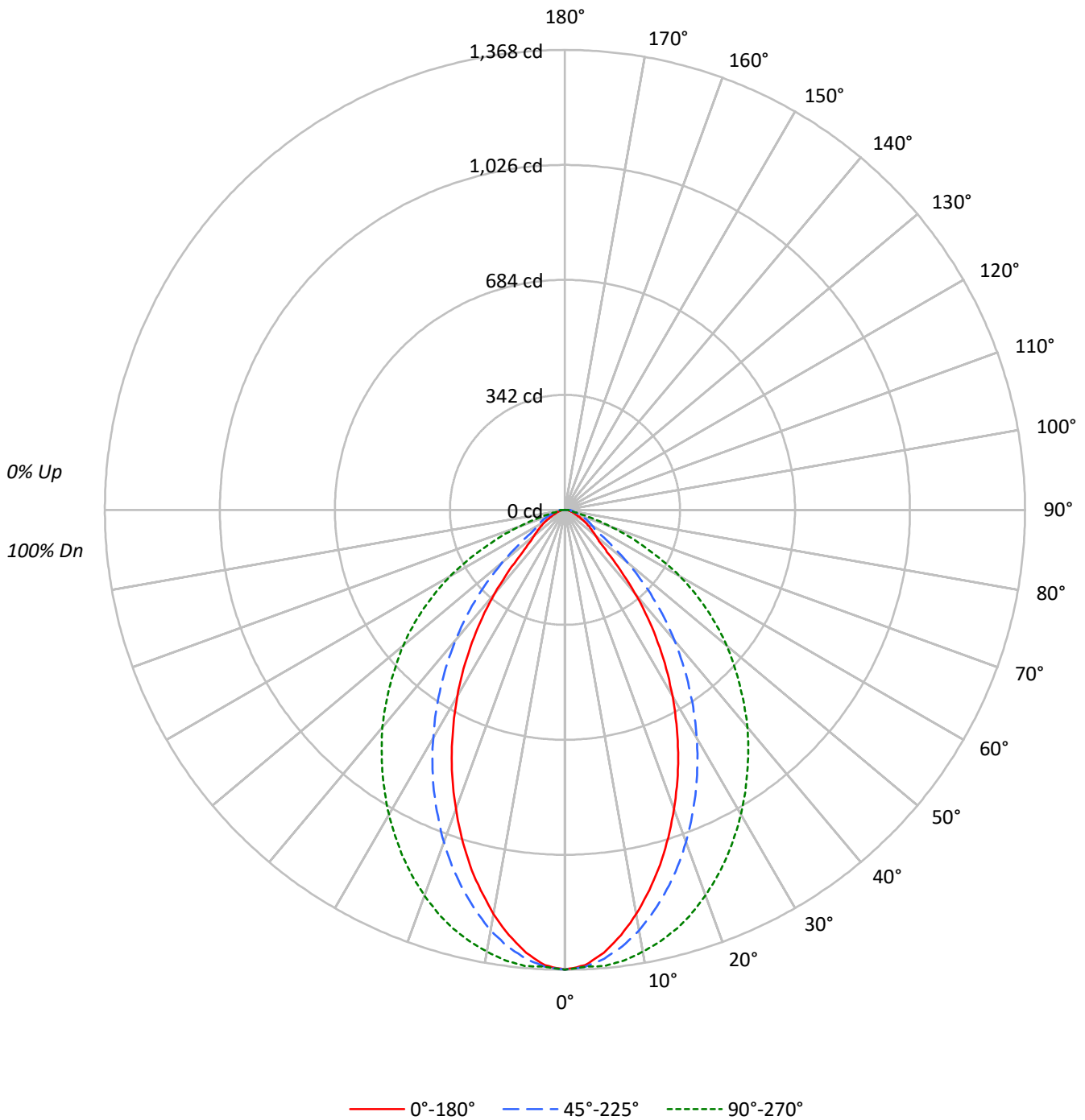
Lumens per Lamp: N/A
Luminaire Lumens: 1981.0 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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: P1061529

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-SVL-W

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9417	9417	9417
5°	9141	9262	9413
10°	8536	8881	9329
15°	7791	8340	9190
20°	6943	7710	8946
25°	6051	7001	8657
30°	5084	6228	8320
35°	4044	5412	7953
40°	2913	4546	7590
45°	1726	3609	7147
50°	1277	2569	6726
55°	1082	1588	6159
60°	881	1281	5424
65°	686	1184	4286
70°	586	1025	2867
75°	540	889	1160
80°	575	924	805
85°	687	1375	916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7147 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	6.4
10°-20°	331.1	16.7
20°-30°	432.7	21.8
30°-40°	421.5	21.3
40°-50°	316.2	16.0
50°-60°	198.2	10.0
60°-70°	103.2	5.2
70°-80°	37.3	1.9
80°-90°	14.8	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°	889.8	44.9
0°-40°	1311.4	66.2
0°-60°	1825.7	92.2
0°-90°	1981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1323	1340	1340	1350	1362	123
15°	1093	1125	1170	1243	1289	305
25°	796	840	922	1046	1140	364
35°	481	532	644	815	946	299
45°	177	230	371	573	734	149
55°	90	94	132	346	513	80
65°	42	45	73	140	263	43
75°	20	28	33	35	44	22
85°	9	14	17	16	12	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1356.1	1369.1	1360.4	1360.4	1360.4
5°	1322.6	1340.1	1340.1	1350.2	1361.9
7.5°	1276.1	1296.5	1309.5	1334.3	1351.7
10°	1220.9	1245.6	1270.3	1311.0	1334.3
12.5°	1158.4	1187.5	1222.3	1279.0	1313.9
15°	1093.0	1125.0	1170.0	1242.7	1289.2
17.5°	1021.8	1059.6	1113.3	1200.5	1257.2
20°	947.6	985.4	1052.3	1151.1	1220.9
22.5°	873.5	914.2	986.9	1098.8	1181.6
25°	796.5	840.1	921.5	1046.5	1139.5
27.5°	718.0	763.1	853.2	992.7	1093.0
30°	639.5	686.0	783.4	934.6	1046.5
32.5°	561.0	610.4	713.6	875.0	997.1
35°	481.1	532.0	643.9	815.4	946.2
37.5°	404.1	454.9	574.1	754.3	895.3
40°	324.1	379.3	505.8	693.3	844.4
42.5°	245.6	302.3	437.5	632.2	789.2
45°	177.3	229.6	370.6	572.7	734.0
47.5°	136.6	165.7	302.3	511.6	680.2
50°	119.2	127.9	239.8	454.9	627.9
52.5°	103.2	109.0	180.2	402.6	571.2
55°	90.1	94.5	132.3	345.9	513.1
57.5°	75.6	81.4	104.6	290.7	453.5
60°	64.0	66.9	93.0	239.8	393.9
62.5°	52.3	55.2	82.8	188.9	327.0
65°	42.1	45.1	72.7	139.5	263.1
67.5°	34.9	36.3	61.0	98.8	202.0
70°	29.1	30.5	50.9	68.3	142.4
72.5°	24.7	29.1	40.7	49.4	90.1
75°	20.3	27.6	33.4	34.9	43.6
77.5°	17.4	26.2	27.6	27.6	24.7
80°	14.5	21.8	23.3	21.8	20.3
82.5°	11.6	17.4	18.9	18.9	16.0
85°	8.7	14.5	17.4	16.0	11.6
87.5°	5.8	13.1	14.5	13.1	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)