

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: P1061528

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

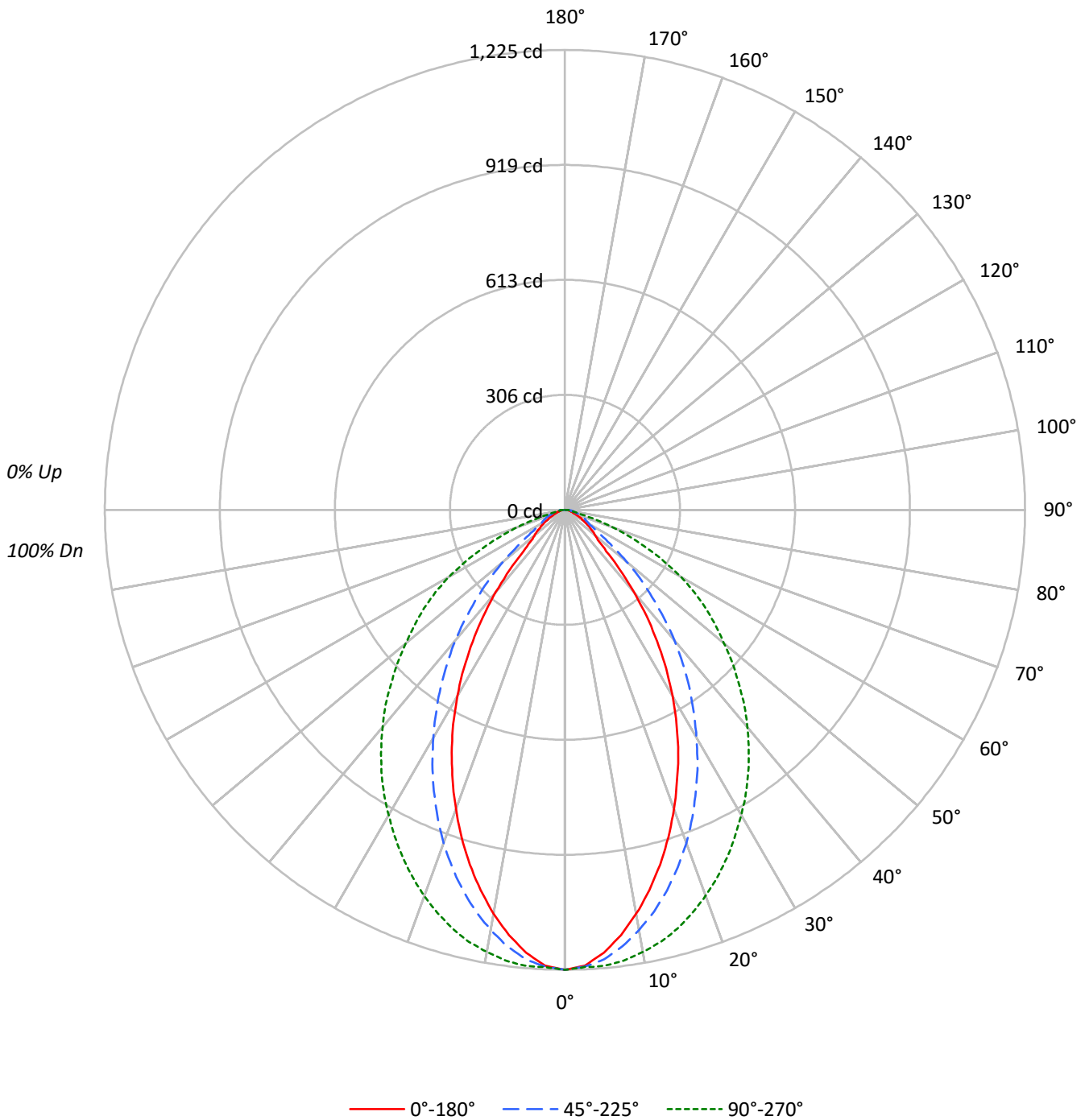
Lumens per Lamp: N/A
Luminaire Lumens: 1768.9 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	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	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8434	8434	8434
5°	8186	8306	8427
10°	7640	7945	8362
15°	6971	7479	8235
20°	6219	6921	8018
25°	5420	6271	7761
30°	4552	5568	7464
35°	3591	4849	7158
40°	2573	4075	6792
45°	1514	3198	6367
50°	1120	2304	5915
55°	942	1396	5495
60°	760	1020	4902
65°	591	971	3930
70°	497	906	2661
75°	463	811	1160
80°	460	805	749
85°	577	1035	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6367 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	6.4
10°-20°	296.5	16.8
20°-30°	387.5	21.9
30°-40°	377.2	21.3
40°-50°	281.9	15.9
50°-60°	174.9	9.9
60°-70°	91.8	5.2
70°-80°	33.5	1.9
80°-90°	12.6	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°	796.9	45.1
0°-40°	1174.2	66.4
0°-60°	1630.9	92.2
0°-90°	1768.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1184	1200	1202	1209	1219	110
15°	978	1007	1049	1113	1155	273
25°	714	750	825	937	1022	326
35°	427	474	577	731	852	266
45°	156	203	328	513	654	131
55°	78	83	116	302	458	71
65°	36	39	60	128	241	38
75°	17	20	30	33	44	19
85°	7	13	13	13	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.0	1225.0	1225.0	1225.0	1225.0
2.5°	1214.9	1225.0	1217.8	1217.8	1219.2
5°	1184.4	1200.3	1201.8	1209.1	1219.2
7.5°	1142.2	1161.1	1172.7	1194.5	1210.5
10°	1092.8	1114.6	1136.4	1172.7	1196.0
12.5°	1037.6	1063.7	1095.7	1145.1	1178.5
15°	978.0	1007.1	1049.2	1113.2	1155.3
17.5°	915.5	946.0	998.3	1075.4	1126.2
20°	848.7	882.1	944.6	1031.8	1094.3
22.5°	780.4	818.2	886.5	985.3	1059.4
25°	713.5	749.9	825.4	937.3	1021.6
27.5°	643.8	681.6	764.4	887.9	980.9
30°	572.6	613.3	700.4	837.0	938.8
32.5°	501.4	543.5	638.0	784.7	896.6
35°	427.2	473.7	576.9	731.0	851.6
37.5°	357.5	406.9	514.4	675.7	803.6
40°	286.3	337.1	453.4	622.0	755.7
42.5°	216.5	268.8	390.9	566.7	707.7
45°	155.5	203.4	328.4	513.0	653.9
47.5°	119.2	146.8	270.3	457.8	606.0
50°	104.6	113.3	215.1	404.0	552.2
52.5°	91.6	97.4	159.9	351.7	505.7
55°	78.5	82.8	116.3	302.3	457.8
57.5°	66.8	71.2	88.6	257.2	408.3
60°	55.2	59.6	74.1	212.2	356.0
62.5°	46.5	48.0	66.8	170.0	297.9
65°	36.3	39.2	59.6	127.9	241.2
67.5°	30.5	32.0	52.3	91.6	186.0
70°	24.7	26.2	45.0	63.9	132.2
72.5°	21.8	21.8	37.8	46.5	84.3
75°	17.4	20.3	30.5	33.4	43.6
77.5°	14.5	20.3	26.2	24.7	23.3
80°	11.6	18.9	20.3	20.3	18.9
82.5°	10.2	16.0	17.4	16.0	14.5
85°	7.3	13.1	13.1	13.1	10.2
87.5°	5.8	11.6	10.2	10.2	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)