

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: P1175398

Luminaire Tested: S125RDR-H1090D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175398
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: S125RDR-H1090D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

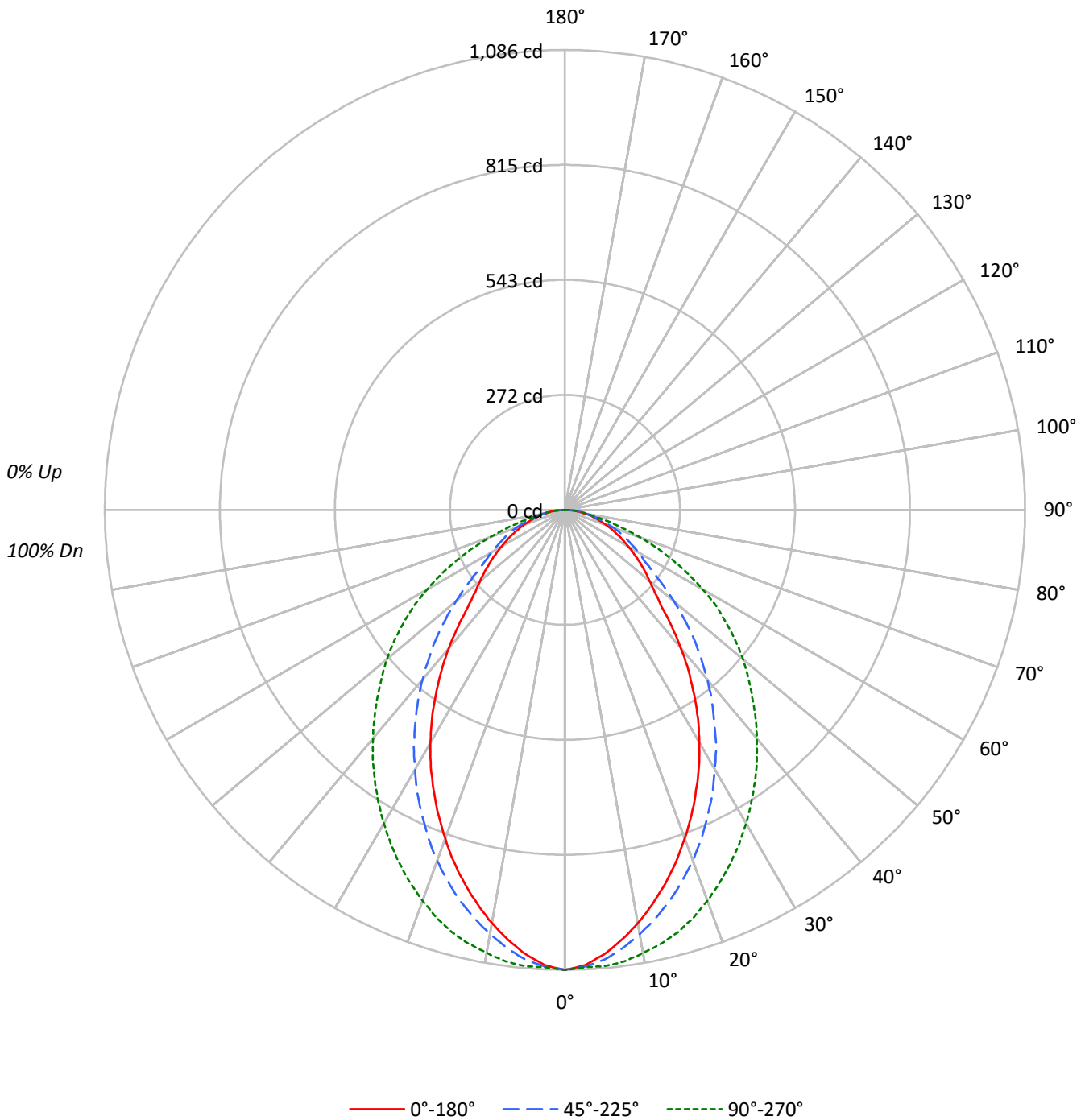
Lumens per Lamp: N/A
Luminaire Lumens: 2046.8 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	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°	7480	7480	7480
5°	7286	7368	7477
10°	6931	7112	7428
15°	6515	6811	7356
20°	6055	6460	7197
25°	5563	6053	7007
30°	5045	5624	6797
35°	4465	5171	6574
40°	3830	4700	6333
45°	3143	4185	6089
50°	2796	3596	5878
55°	2580	3012	5579
60°	2375	2743	5169
65°	2209	2584	4568
70°	2061	2414	3732
75°	1939	2232	2796
80°	1828	2046	2010
85°	1675	2038	1675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	4.9
10°-20°	271.1	13.2
20°-30°	373.0	18.2
30°-40°	395.6	19.3
40°-50°	346.2	16.9
50°-60°	265.7	13.0
60°-70°	177.0	8.6
70°-80°	90.7	4.4
80°-90°	26.9	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°	744.7	36.4
0°-40°	1140.2	55.7
0°-60°	1752.1	85.6
0°-90°	2046.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1054	1068	1066	1074	1082	99
15°	914	935	956	1001	1032	256
25°	732	757	797	864	922	336
35°	531	556	615	706	782	331
45°	323	350	430	537	625	255
55°	215	220	251	373	465	193
65°	136	136	159	208	280	135
75°	73	78	84	88	105	77
85°	21	24	26	25	21	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1076.3	1087.4	1079.1	1080.0	1080.9
5°	1054.2	1068.0	1066.1	1073.5	1081.8
7.5°	1024.6	1039.4	1044.0	1062.5	1075.4
10°	991.4	1008.0	1017.3	1044.9	1062.5
12.5°	953.6	973.0	987.8	1023.7	1049.5
15°	914.0	935.2	955.5	1000.7	1032.0
17.5°	871.5	892.8	919.5	971.2	1009.0
20°	826.4	849.4	881.7	937.0	982.2
22.5°	780.2	804.2	841.1	902.0	953.6
25°	732.3	757.2	796.8	864.2	922.3
27.5°	685.2	708.3	754.4	826.4	890.0
30°	634.5	658.5	707.4	786.7	854.9
32.5°	583.8	607.8	664.0	747.0	819.0
35°	531.2	556.1	615.2	705.5	782.1
37.5°	478.7	504.5	570.0	663.1	744.3
40°	426.1	453.8	522.9	620.7	704.6
42.5°	372.6	402.1	475.0	579.2	665.9
45°	322.8	349.5	429.8	536.8	625.3
47.5°	286.8	302.5	381.8	493.4	586.6
50°	261.0	268.4	335.7	451.9	548.8
52.5°	237.9	242.6	290.5	413.2	507.3
55°	214.9	219.5	250.9	372.6	464.8
57.5°	192.8	195.5	221.3	332.0	422.4
60°	172.5	174.3	199.2	291.4	375.4
62.5°	154.0	154.9	178.0	249.9	328.3
65°	135.6	136.5	158.6	208.4	280.4
67.5°	119.0	119.0	140.2	170.6	234.3
70°	102.4	102.4	119.9	138.3	185.4
72.5°	87.6	89.5	101.5	111.6	144.8
75°	72.9	77.5	83.9	88.5	105.1
77.5°	59.0	64.6	67.3	69.2	70.1
80°	46.1	49.8	51.6	52.6	50.7
82.5°	34.1	36.9	37.8	37.8	35.0
85°	21.2	24.0	25.8	24.9	21.2
87.5°	10.1	13.8	14.8	12.9	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)