

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: P1175355

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175355
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-S1090D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

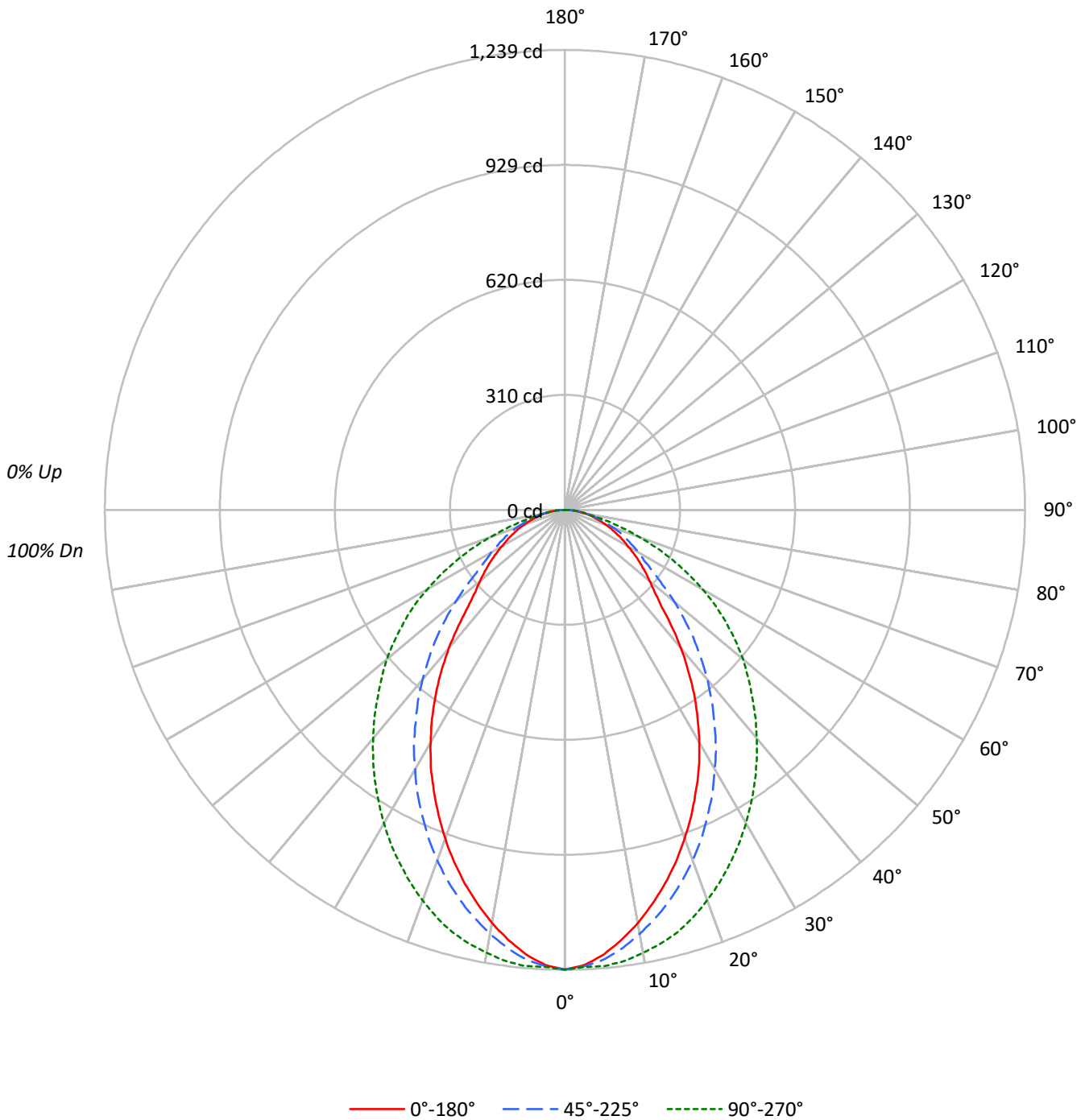
Lumens per Lamp: N/A
Luminaire Lumens: 2333.6 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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				
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°	8529	8529	8529
5°	8307	8402	8525
10°	7903	8109	8469
15°	7428	7765	8388
20°	6904	7366	8206
25°	6343	6902	7988
30°	5752	6412	7750
35°	5091	5895	7495
40°	4366	5359	7221
45°	3583	4771	6942
50°	3188	4100	6702
55°	2941	3433	6362
60°	2707	3127	5894
65°	2519	2947	5209
70°	2349	2752	4256
75°	2211	2546	3190
80°	2086	2335	2292
85°	1912	2323	1912

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6942 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	4.9
10°-20°	309.1	13.2
20°-30°	425.2	18.2
30°-40°	451.0	19.3
40°-50°	394.8	16.9
50°-60°	302.9	13.0
60°-70°	201.8	8.6
70°-80°	103.5	4.4
80°-90°	30.7	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°	849.0	36.4
0°-40°	1300.1	55.7
0°-60°	1997.7	85.6
0°-90°	2333.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1202	1218	1216	1224	1233	112
15°	1042	1066	1089	1141	1177	292
25°	835	863	908	985	1052	383
35°	606	634	701	804	892	377
45°	368	398	490	612	713	291
55°	245	250	286	425	530	220
65°	155	156	181	238	320	154
75°	83	88	96	101	120	88
85°	24	27	29	28	24	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1227.1	1239.8	1230.3	1231.3	1232.4
5°	1201.9	1217.7	1215.6	1224.0	1233.4
7.5°	1168.3	1185.1	1190.3	1211.4	1226.1
10°	1130.4	1149.3	1159.8	1191.4	1211.4
12.5°	1087.3	1109.4	1126.2	1167.2	1196.6
15°	1042.1	1066.3	1089.4	1140.9	1176.7
17.5°	993.7	1017.9	1048.4	1107.3	1150.4
20°	942.2	968.5	1005.3	1068.4	1119.9
22.5°	889.6	916.9	959.0	1028.4	1087.3
25°	834.9	863.3	908.5	985.3	1051.5
27.5°	781.3	807.6	860.2	942.2	1014.7
30°	723.5	750.8	806.5	897.0	974.8
32.5°	665.6	693.0	757.1	851.7	933.8
35°	605.7	634.1	701.4	804.4	891.7
37.5°	545.7	575.2	649.8	756.1	848.6
40°	485.8	517.4	596.2	707.7	803.4
42.5°	424.8	458.5	541.5	660.4	759.2
45°	368.0	398.5	490.0	612.0	712.9
47.5°	327.0	344.9	435.3	562.6	668.8
50°	297.6	306.0	382.8	515.3	625.7
52.5°	271.3	276.6	331.2	471.1	578.3
55°	245.0	250.3	286.0	424.8	530.0
57.5°	219.8	222.9	252.4	378.6	481.6
60°	196.6	198.7	227.1	332.3	428.0
62.5°	175.6	176.7	202.9	285.0	374.3
65°	154.6	155.6	180.9	237.6	319.7
67.5°	135.6	135.6	159.8	194.5	267.1
70°	116.7	116.7	136.7	157.7	211.4
72.5°	99.9	102.0	115.7	127.2	165.1
75°	83.1	88.3	95.7	100.9	119.9
77.5°	67.3	73.6	76.8	78.9	79.9
80°	52.6	56.8	58.9	59.9	57.8
82.5°	38.9	42.1	43.1	43.1	40.0
85°	24.2	27.3	29.4	28.4	24.2
87.5°	11.6	15.8	16.8	14.7	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)