

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S1090D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

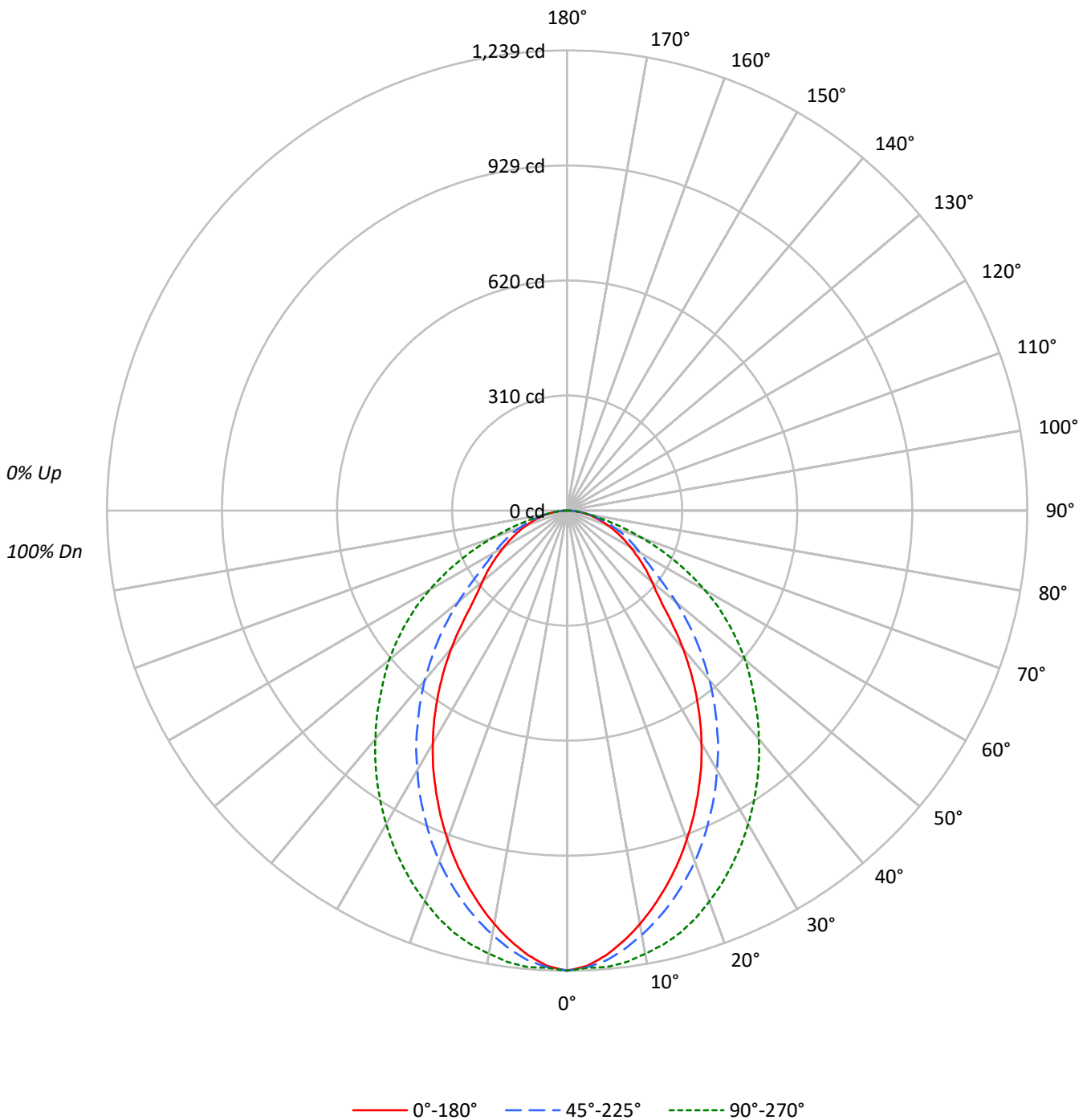
Lumens per Lamp: N/A
Luminaire Lumens: 2333.6 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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	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

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.06	15.56	14.43	15.87	16.19	18.09	19.59	18.45	19.90	20.21
	3H	15.65	16.99	16.03	17.32	17.68	19.48	20.82	19.85	21.15	21.51
	4H	16.29	17.55	16.69	17.90	18.28	19.88	21.14	20.28	21.49	21.87
	6H	16.80	17.97	17.21	18.33	18.72	20.09	21.25	20.50	21.62	22.01
	8H	16.98	18.09	17.41	18.48	18.88	20.14	21.25	20.57	21.64	22.04
	12H	17.11	18.17	17.54	18.55	18.98	20.18	21.24	20.61	21.62	22.05
4H	2H	14.83	16.09	15.23	16.44	16.82	18.22	19.48	18.62	19.83	20.21
	3H	16.61	17.66	17.02	18.06	18.46	19.79	20.83	20.20	21.23	21.64
	4H	17.38	18.32	17.81	18.74	19.18	20.30	21.24	20.73	21.65	22.09
	6H	18.02	18.84	18.48	19.28	19.74	20.62	21.44	21.08	21.89	22.35
	8H	18.25	19.02	18.72	19.46	19.93	20.72	21.49	21.19	21.93	22.40
	12H	18.42	19.11	18.91	19.59	20.06	20.79	21.48	21.28	21.96	22.43
8H	4H	17.77	18.53	18.23	18.98	19.44	20.40	21.16	20.86	21.61	22.07
	6H	18.54	19.18	19.04	19.67	20.14	20.82	21.45	21.31	21.94	22.42
	8H	18.86	19.43	19.37	19.94	20.43	20.98	21.54	21.49	22.05	22.54
	12H	19.12	19.62	19.63	20.12	20.68	21.11	21.62	21.62	22.11	22.67
12H	4H	17.80	18.49	18.29	18.97	19.44	20.40	21.08	20.88	21.56	22.03
	6H	18.62	19.19	19.13	19.70	20.18	20.83	21.40	21.34	21.91	22.40
	8H	19.00	19.50	19.51	20.00	20.56	21.04	21.54	21.55	22.03	22.60