

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: P1175354

Luminaire Tested: S125RDRP-S1090D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175354
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-S1090D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

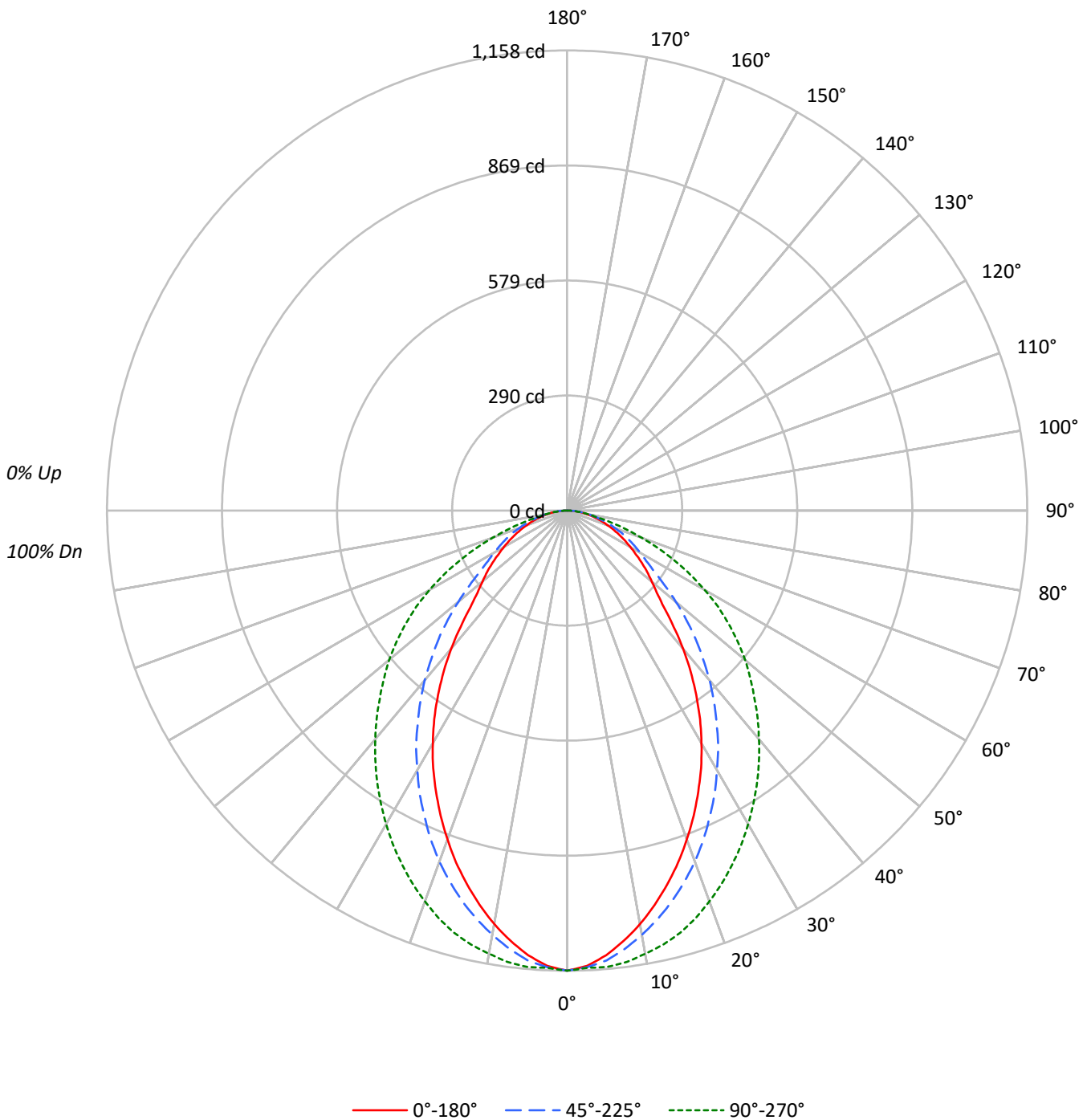
Lumens per Lamp: N/A
Luminaire Lumens: 2181.3 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	7972	7972	7972
5°	7764	7853	7968
10°	7387	7579	7916
15°	6943	7259	7840
20°	6453	6885	7670
25°	5929	6451	7467
30°	5376	5994	7244
35°	4758	5511	7006
40°	4081	5009	6749
45°	3350	4460	6489
50°	2980	3833	6264
55°	2749	3209	5947
60°	2531	2923	5508
65°	2354	2755	4868
70°	2196	2573	3978
75°	2064	2378	2979
80°	1947	2181	2145
85°	1785	2172	1785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	4.9
10°-20°	288.9	13.2
20°-30°	397.5	18.2
30°-40°	421.6	19.3
40°-50°	369.0	16.9
50°-60°	283.1	13.0
60°-70°	188.6	8.6
70°-80°	96.7	4.4
80°-90°	28.7	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°	793.6	36.4
0°-40°	1215.2	55.7
0°-60°	1867.3	85.6
0°-90°	2181.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1123	1138	1136	1144	1153	105
15°	974	997	1018	1066	1100	273
25°	780	807	849	921	983	358
35°	566	593	656	752	834	353
45°	344	372	458	572	666	272
55°	229	234	267	397	495	205
65°	144	146	169	222	299	144
75°	78	83	89	94	112	83
85°	23	26	28	26	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1147.0	1158.8	1150.0	1150.9	1151.9
5°	1123.4	1138.2	1136.2	1144.1	1152.9
7.5°	1092.0	1107.7	1112.6	1132.3	1146.0
10°	1056.6	1074.3	1084.1	1113.6	1132.3
12.5°	1016.3	1036.9	1052.7	1091.0	1118.5
15°	974.0	996.6	1018.3	1066.4	1099.8
17.5°	928.8	951.4	979.9	1035.0	1075.3
20°	880.7	905.2	939.6	998.6	1046.8
22.5°	831.5	857.1	896.4	961.3	1016.3
25°	780.4	806.9	849.2	921.0	982.9
27.5°	730.3	754.8	804.0	880.7	948.5
30°	676.2	701.8	753.9	838.4	911.1
32.5°	622.2	647.7	707.7	796.1	872.8
35°	566.1	592.7	655.6	751.9	833.5
37.5°	510.1	537.6	607.4	706.7	793.2
40°	454.1	483.6	557.3	661.5	750.9
42.5°	397.1	428.5	506.2	617.2	709.6
45°	344.0	372.5	458.0	572.0	666.4
47.5°	305.7	322.4	406.9	525.8	625.1
50°	278.2	286.0	357.8	481.6	584.8
52.5°	253.6	258.5	309.6	440.3	540.6
55°	229.0	233.9	267.3	397.1	495.4
57.5°	205.4	208.4	235.9	353.8	450.2
60°	183.8	185.8	212.3	310.6	400.0
62.5°	164.1	165.1	189.7	266.4	349.9
65°	144.5	145.5	169.1	222.1	298.8
67.5°	126.8	126.8	149.4	181.8	249.7
70°	109.1	109.1	127.8	147.4	197.6
72.5°	93.4	95.3	108.1	118.9	154.3
75°	77.6	82.6	89.4	94.4	112.0
77.5°	62.9	68.8	71.7	73.7	74.7
80°	49.1	53.1	55.0	56.0	54.1
82.5°	36.4	39.3	40.3	40.3	37.3
85°	22.6	25.6	27.5	26.5	22.6
87.5°	10.8	14.7	15.7	13.8	10.8
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	13.83	15.33	14.19	15.64	15.96	17.85	19.35	18.22	19.66	19.98
	3H	15.42	16.76	15.79	17.09	17.45	19.24	20.58	19.62	20.91	21.27
	4H	16.06	17.32	16.46	17.67	18.05	19.65	20.91	20.05	21.26	21.63
	6H	16.57	17.73	16.98	18.10	18.49	19.85	21.02	20.26	21.38	21.78
	8H	16.75	17.86	17.18	18.25	18.65	19.91	21.02	20.34	21.41	21.81
	12H	16.87	17.93	17.30	18.32	18.75	19.94	21.00	20.37	21.38	21.81
4H	2H	14.60	15.86	15.00	16.21	16.59	17.98	19.24	18.38	19.59	19.97
	3H	16.38	17.43	16.79	17.83	18.23	19.55	20.60	19.96	21.00	21.40
	4H	17.15	18.09	17.58	18.51	18.94	20.06	21.00	20.49	21.42	21.86
	6H	17.79	18.61	18.25	19.05	19.51	20.39	21.21	20.85	21.65	22.11
	8H	18.02	18.78	18.48	19.23	19.69	20.49	21.25	20.95	21.70	22.17
	12H	18.19	18.87	18.67	19.35	19.82	20.56	21.24	21.04	21.72	22.19
8H	4H	17.53	18.30	18.00	18.74	19.21	20.16	20.93	20.63	21.37	21.84
	6H	18.31	18.94	18.81	19.43	19.91	20.58	21.21	21.08	21.71	22.18
	8H	18.62	19.19	19.14	19.70	20.19	20.74	21.31	21.26	21.82	22.31
	12H	18.89	19.39	19.40	19.88	20.45	20.88	21.38	21.39	21.87	22.44
12H	4H	17.57	18.25	18.05	18.73	19.20	20.16	20.84	20.64	21.32	21.79
	6H	18.38	18.95	18.90	19.46	19.95	20.59	21.16	21.11	21.67	22.16
	8H	18.77	19.27	19.28	19.76	20.33	20.80	21.30	21.31	21.80	22.36