

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: P1175362

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175362
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-S1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

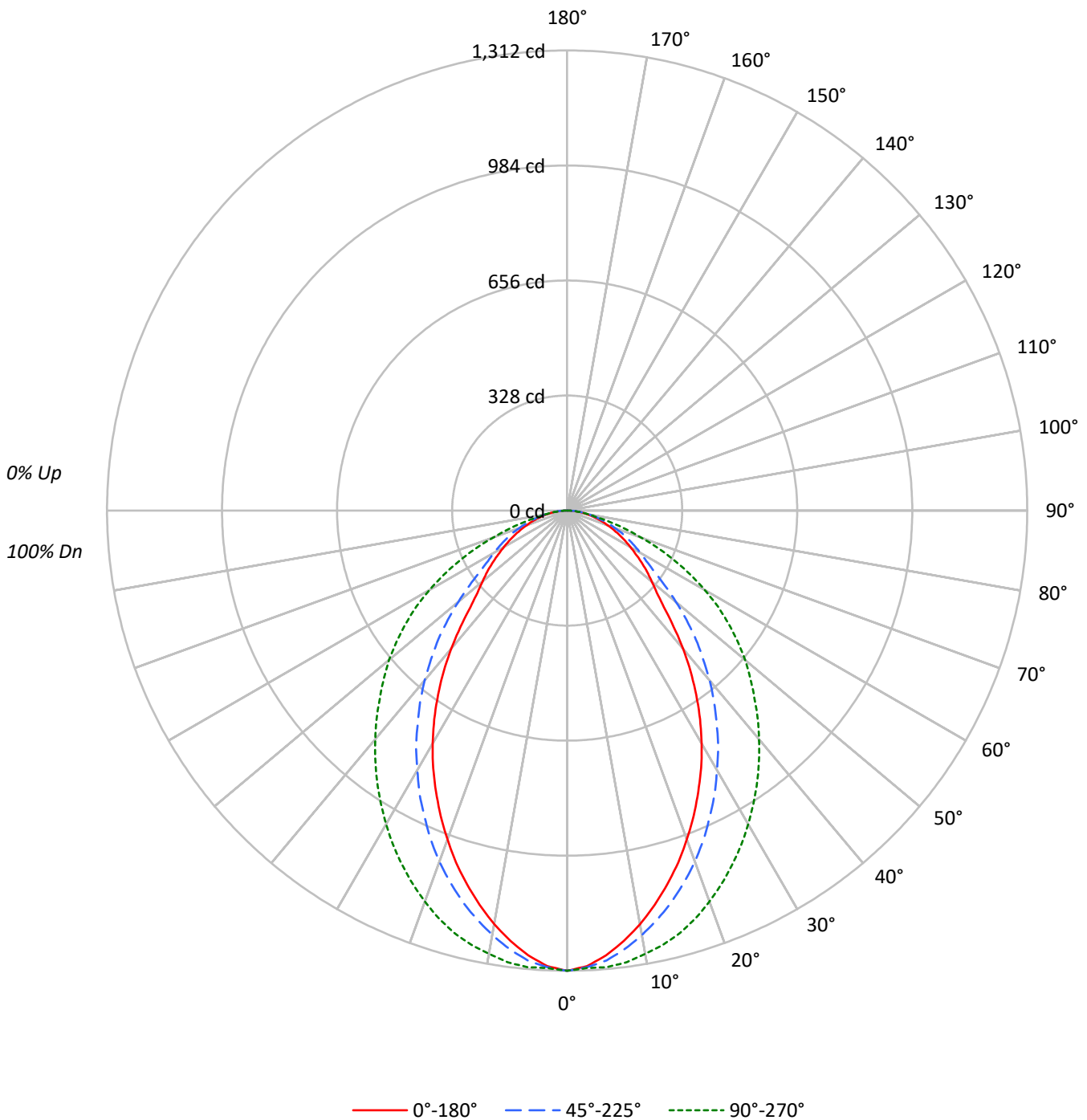
Lumens per Lamp: N/A
Luminaire Lumens: 2471.8 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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°	9033	9033	9033
5°	8798	8899	9030
10°	8371	8589	8971
15°	7867	8225	8884
20°	7312	7802	8691
25°	6718	7311	8462
30°	6092	6792	8209
35°	5392	6244	7939
40°	4625	5676	7648
45°	3796	5054	7353
50°	3376	4342	7099
55°	3115	3636	6738
60°	2868	3313	6242
65°	2667	3122	5516
70°	2488	2915	4507
75°	2341	2697	3379
80°	2209	2474	2431
85°	2022	2465	2022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7353 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	4.9
10°-20°	327.4	13.2
20°-30°	450.4	18.2
30°-40°	477.7	19.3
40°-50°	418.1	16.9
50°-60°	320.8	13.0
60°-70°	213.7	8.6
70°-80°	109.6	4.4
80°-90°	32.5	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°	899.3	36.4
0°-40°	1377.0	55.7
0°-60°	2115.9	85.6
0°-90°	2471.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1273	1290	1288	1296	1306	119
15°	1104	1129	1154	1208	1246	309
25°	884	914	962	1044	1114	406
35°	642	672	743	852	944	400
45°	390	422	519	648	755	308
55°	260	265	303	450	561	233
65°	164	165	192	252	339	163
75°	88	94	101	107	127	94
85°	26	29	31	30	26	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.0	1312.0	1312.0	1312.0	1312.0
2.5°	1299.8	1313.1	1303.1	1304.2	1305.3
5°	1273.0	1289.7	1287.5	1296.4	1306.5
7.5°	1237.4	1255.2	1260.8	1283.1	1298.7
10°	1197.3	1217.4	1228.5	1261.9	1283.1
12.5°	1151.6	1175.0	1192.9	1236.3	1267.5
15°	1103.7	1129.4	1153.9	1208.4	1246.3
17.5°	1052.5	1078.1	1110.4	1172.8	1218.5
20°	997.9	1025.8	1064.8	1131.6	1186.2
22.5°	942.3	971.2	1015.8	1089.3	1151.6
25°	884.3	914.4	962.3	1043.6	1113.8
27.5°	827.5	855.4	911.1	997.9	1074.8
30°	766.3	795.2	854.3	950.0	1032.5
32.5°	705.0	734.0	801.9	902.2	989.0
35°	641.5	671.6	742.9	852.0	944.5
37.5°	578.0	609.2	688.3	800.8	898.8
40°	514.6	548.0	631.5	749.6	850.9
42.5°	450.0	485.6	573.6	699.4	804.1
45°	389.8	422.1	519.0	648.2	755.1
47.5°	346.4	365.3	461.1	595.9	708.4
50°	315.2	324.1	405.4	545.7	662.7
52.5°	287.4	292.9	350.8	499.0	612.6
55°	259.5	265.1	302.9	450.0	561.3
57.5°	232.8	236.1	267.3	401.0	510.1
60°	208.3	210.5	240.6	352.0	453.3
62.5°	186.0	187.1	215.0	301.8	396.5
65°	163.7	164.8	191.6	251.7	338.6
67.5°	143.7	143.7	169.3	206.0	282.9
70°	123.6	123.6	144.8	167.1	223.9
72.5°	105.8	108.0	122.5	134.8	174.9
75°	88.0	93.6	101.4	106.9	127.0
77.5°	71.3	78.0	81.3	83.5	84.6
80°	55.7	60.1	62.4	63.5	61.3
82.5°	41.2	44.6	45.7	45.7	42.3
85°	25.6	29.0	31.2	30.1	25.6
87.5°	12.3	16.7	17.8	15.6	12.3
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	14.26	15.76	14.63	16.07	16.39	18.29	19.79	18.65	20.10	20.41
	3H	15.85	17.19	16.23	17.52	17.88	19.68	21.02	20.05	21.35	21.71
	4H	16.49	17.75	16.89	18.10	18.48	20.08	21.34	20.48	21.69	22.07
	6H	17.00	18.17	17.41	18.53	18.93	20.29	21.45	20.70	21.82	22.21
	8H	17.18	18.29	17.61	18.68	19.08	20.34	21.45	20.77	21.84	22.24
	12H	17.31	18.37	17.74	18.75	19.18	20.38	21.44	20.81	21.82	22.25
4H	2H	15.03	16.29	15.43	16.64	17.02	18.42	19.68	18.82	20.03	20.41
	3H	16.81	17.86	17.22	18.26	18.66	19.99	21.03	20.40	21.43	21.84
	4H	17.58	18.52	18.01	18.94	19.38	20.50	21.44	20.93	21.85	22.29
	6H	18.22	19.04	18.68	19.48	19.94	20.82	21.64	21.28	22.09	22.55
	8H	18.45	19.22	18.92	19.66	20.13	20.92	21.69	21.39	22.13	22.60
	12H	18.62	19.31	19.11	19.79	20.26	20.99	21.68	21.48	22.16	22.63
8H	4H	17.97	18.73	18.43	19.18	19.64	20.60	21.36	21.06	21.81	22.27
	6H	18.74	19.38	19.24	19.87	20.34	21.02	21.65	21.51	22.14	22.62
	8H	19.06	19.63	19.57	20.14	20.63	21.18	21.74	21.69	22.25	22.74
	12H	19.32	19.82	19.83	20.32	20.88	21.31	21.82	21.82	22.31	22.87
12H	4H	18.01	18.69	18.49	19.17	19.64	20.60	21.28	21.08	21.76	22.23
	6H	18.82	19.39	19.33	19.90	20.38	21.03	21.60	21.54	22.11	22.60
	8H	19.20	19.70	19.71	20.20	20.76	21.24	21.74	21.75	22.23	22.80