

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: P1061538

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D840-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

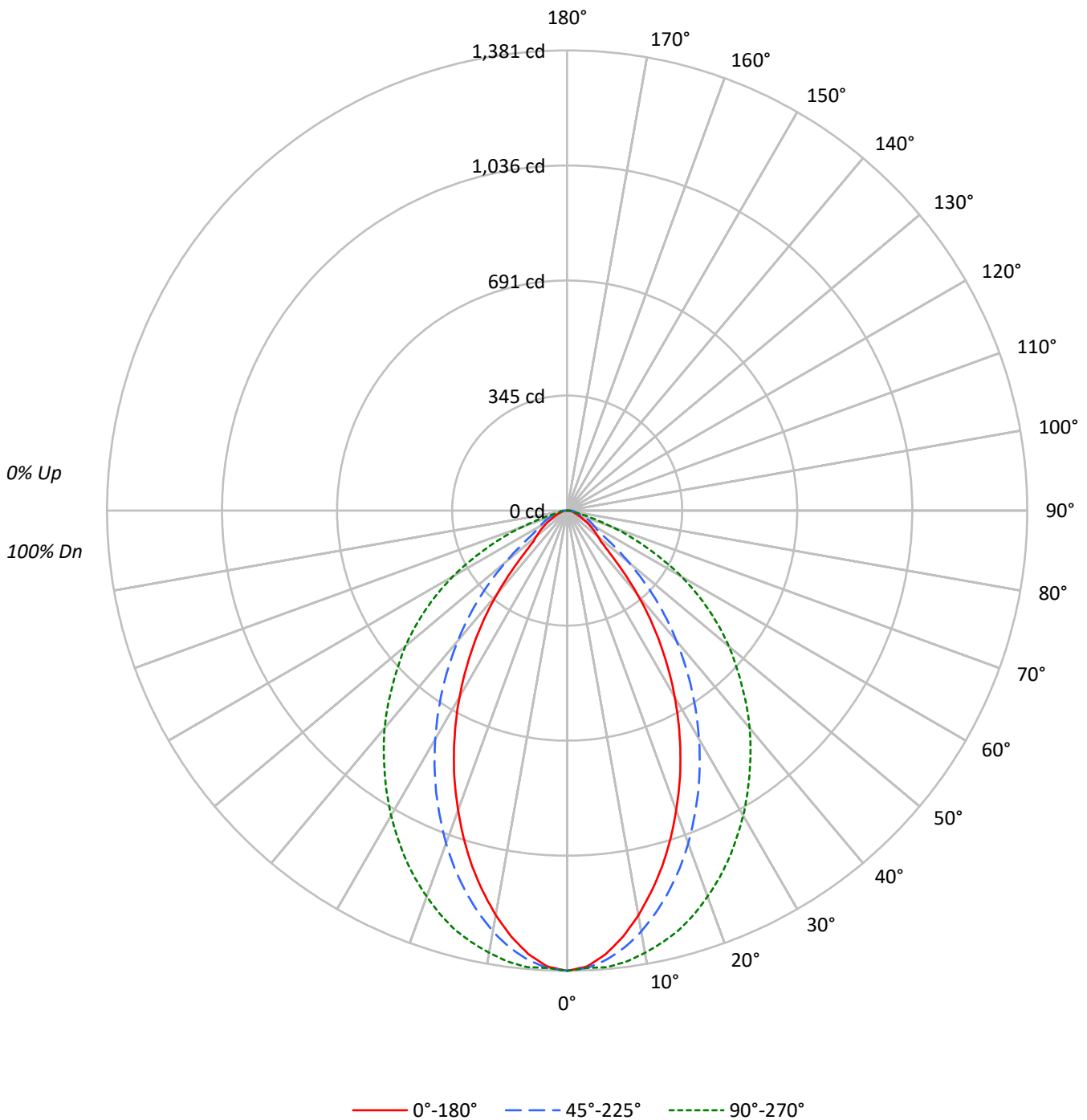
Lumens per Lamp: N/A
Luminaire Lumens: 2000.6 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9510	9510	9510
5°	9232	9353	9505
10°	8620	8969	9420
15°	7868	8423	9280
20°	7012	7787	9034
25°	6110	7070	8742
30°	5134	6290	8402
35°	4083	5465	8031
40°	2942	4591	7665
45°	1744	3645	7217
50°	1290	2594	6792
55°	1092	1604	6219
60°	890	1293	5478
65°	694	1196	4329
70°	592	1035	2895
75°	545	899	1171
80°	583	932	813
85°	695	1390	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7217 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	6.4
10°-20°	334.3	16.7
20°-30°	437.0	21.8
30°-40°	425.7	21.3
40°-50°	319.3	16.0
50°-60°	200.2	10.0
60°-70°	104.2	5.2
70°-80°	37.7	1.9
80°-90°	14.9	0.7
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°	898.6	44.9
0°-40°	1324.3	66.2
0°-60°	1843.8	92.2
0°-90°	2000.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1336	1353	1353	1364	1375	124
15°	1104	1136	1182	1255	1302	308
25°	804	848	931	1057	1151	368
35°	486	537	650	823	956	302
45°	179	232	374	578	741	151
55°	91	95	134	349	518	81
65°	43	46	73	141	266	44
75°	20	28	34	35	44	22
85°	9	15	18	16	12	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1369.4	1382.6	1373.8	1373.8	1373.8
5°	1335.7	1353.3	1353.3	1363.6	1375.3
7.5°	1288.7	1309.3	1322.5	1347.4	1365.0
10°	1232.9	1257.9	1282.8	1323.9	1347.4
12.5°	1169.8	1199.2	1234.4	1291.6	1326.9
15°	1103.8	1136.1	1181.6	1255.0	1301.9
17.5°	1031.8	1070.0	1124.3	1212.4	1269.6
20°	957.0	995.2	1062.7	1162.5	1232.9
22.5°	882.1	923.2	996.6	1109.6	1193.3
25°	804.3	848.4	930.6	1056.8	1150.7
27.5°	725.1	770.6	861.6	1002.5	1103.8
30°	645.8	692.8	791.1	943.8	1056.8
32.5°	566.6	616.5	720.7	883.6	1006.9
35°	485.8	537.2	650.2	823.4	955.5
37.5°	408.0	459.4	579.8	761.8	904.2
40°	327.3	383.1	510.8	700.1	852.8
42.5°	248.1	305.3	441.8	638.5	797.0
45°	179.1	231.9	374.3	578.3	741.2
47.5°	138.0	167.3	305.3	516.7	686.9
50°	120.4	129.2	242.2	459.4	634.1
52.5°	104.2	110.1	182.0	406.6	576.8
55°	91.0	95.4	133.6	349.3	518.1
57.5°	76.3	82.2	105.7	293.6	457.9
60°	64.6	67.5	93.9	242.2	397.8
62.5°	52.8	55.8	83.7	190.8	330.3
65°	42.6	45.5	73.4	140.9	265.7
67.5°	35.2	36.7	61.6	99.8	204.0
70°	29.4	30.8	51.4	69.0	143.8
72.5°	25.0	29.4	41.1	49.9	91.0
75°	20.5	27.9	33.8	35.2	44.0
77.5°	17.6	26.4	27.9	27.9	25.0
80°	14.7	22.0	23.5	22.0	20.5
82.5°	11.7	17.6	19.1	19.1	16.1
85°	8.8	14.7	17.6	16.1	11.7
87.5°	5.9	13.2	14.7	13.2	8.8
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	7.74	9.10	8.11	9.41	9.72	17.36	18.71	17.72	19.02	19.34
	3H	8.60	9.80	8.98	10.13	10.50	18.20	19.40	18.58	19.73	20.09
	4H	9.02	10.14	9.43	10.49	10.88	18.27	19.39	18.67	19.74	20.12
	6H	9.45	10.48	9.87	10.85	11.24	18.25	19.28	18.67	19.65	20.05
	8H	9.63	10.61	10.06	11.00	11.40	18.24	19.22	18.67	19.61	20.01
	12H	9.79	10.72	10.22	11.11	11.54	18.23	19.16	18.66	19.54	19.97
4H	2H	8.71	9.83	9.11	10.18	10.56	17.22	18.34	17.62	18.69	19.07
	3H	9.76	10.68	10.17	11.08	11.48	18.13	19.05	18.54	19.45	19.85
	4H	10.32	11.14	10.76	11.56	12.00	18.23	19.05	18.67	19.47	19.91
	6H	10.92	11.63	11.38	12.07	12.54	18.26	18.97	18.72	19.41	19.88
	8H	11.16	11.82	11.63	12.27	12.74	18.26	18.92	18.73	19.37	19.84
	12H	11.38	11.97	11.87	12.45	12.92	18.27	18.86	18.76	19.34	19.81
8H	4H	10.79	11.45	11.26	11.90	12.37	18.16	18.82	18.62	19.26	19.73
	6H	11.61	12.15	12.11	12.64	13.12	18.21	18.75	18.71	19.25	19.73
	8H	11.98	12.47	12.51	12.99	13.48	18.24	18.73	18.76	19.24	19.74
	12H	12.38	12.81	12.89	13.30	13.87	18.31	18.74	18.82	19.23	19.80
12H	4H	10.84	11.43	11.33	11.91	12.39	18.12	18.71	18.61	19.19	19.66
	6H	11.73	12.21	12.25	12.73	13.22	18.18	18.66	18.70	19.18	19.67
	8H	12.22	12.65	12.73	13.14	13.71	18.25	18.68	18.76	19.17	19.74