

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: P1061522

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

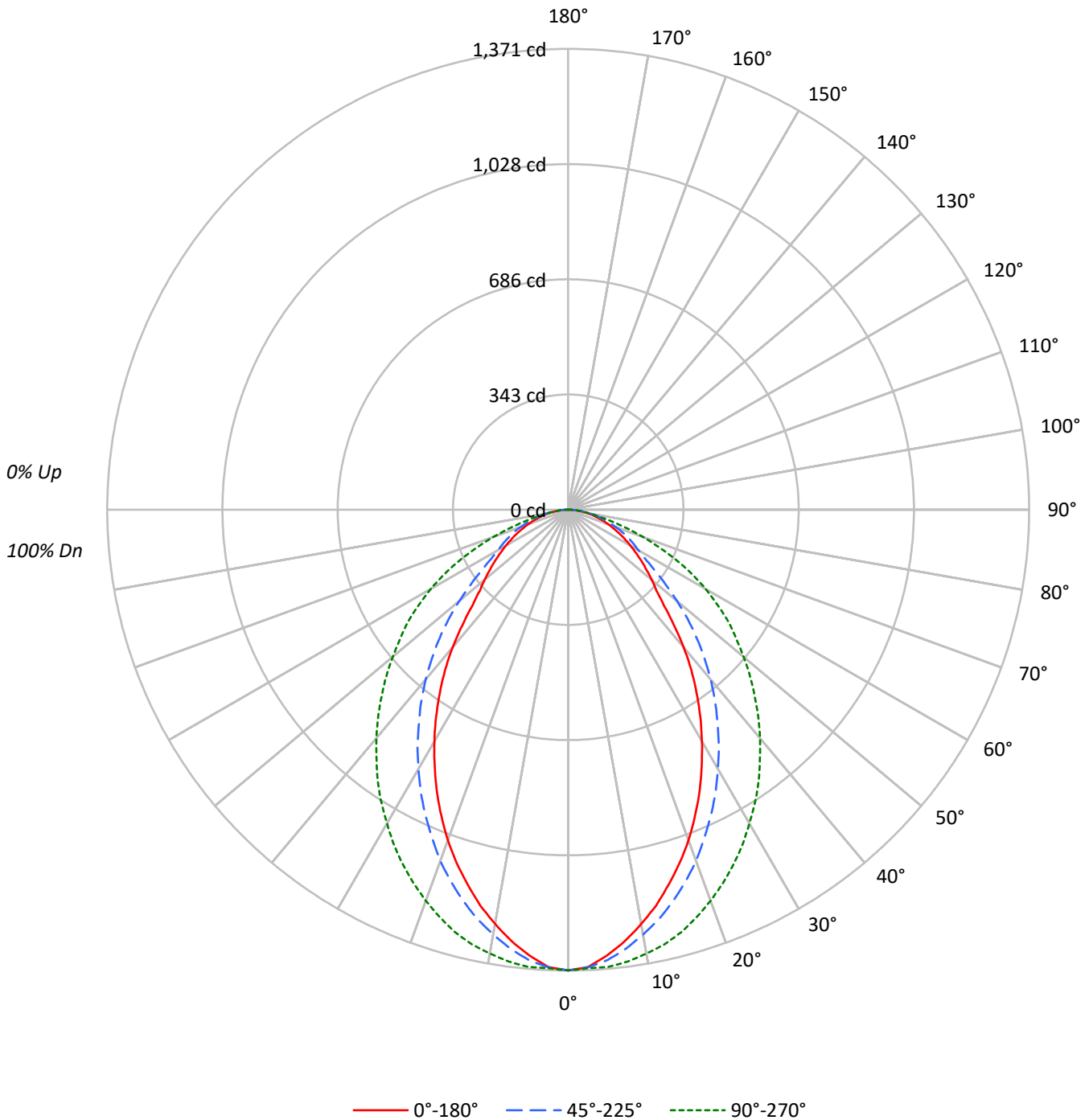
Lumens per Lamp: N/A
Luminaire Lumens: 2569.7 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	74	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44																												
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9438	9438	9438
5°	9199	9294	9436
10°	8751	8971	9373
15°	8229	8590	9273
20°	7666	8147	9070
25°	7022	7626	8843
30°	6325	7077	8568
35°	5594	6503	8299
40°	4801	5920	7976
45°	3920	5267	7641
50°	3476	4518	7290
55°	3189	3748	6986
60°	2941	3319	6505
65°	2744	3190	5800
70°	2565	3032	4741
75°	2368	2841	3498
80°	2224	2661	2553
85°	2054	2599	2165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	4.9
10°-20°	341.7	13.3
20°-30°	469.6	18.3
30°-40°	497.7	19.4
40°-50°	434.4	16.9
50°-60°	330.0	12.8
60°-70°	221.1	8.6
70°-80°	114.0	4.4
80°-90°	34.2	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°	938.2	36.5
0°-40°	1435.9	55.9
0°-60°	2200.3	85.6
0°-90°	2569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2569.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1331	1345	1345	1354	1365	125
15°	1154	1176	1205	1258	1301	324
25°	924	953	1004	1087	1164	424
35°	666	704	774	883	987	415
45°	403	442	541	670	785	318
55°	266	274	312	459	582	238
65°	168	172	196	262	356	167
75°	89	94	107	114	132	95
85°	26	33	33	30	27	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.7	1370.7	1370.7	1370.7	1370.7
2.5°	1361.2	1370.7	1362.5	1362.5	1365.3
5°	1331.0	1344.7	1344.7	1354.3	1365.3
7.5°	1294.1	1309.1	1317.3	1339.3	1355.7
10°	1251.6	1268.0	1283.1	1316.0	1340.6
12.5°	1206.4	1224.2	1247.5	1290.0	1324.2
15°	1154.4	1176.3	1205.1	1258.5	1300.9
17.5°	1102.3	1124.3	1159.9	1222.9	1270.8
20°	1046.2	1069.5	1111.9	1180.4	1237.9
22.5°	986.0	1012.0	1057.2	1135.2	1202.3
25°	924.3	953.1	1003.8	1087.3	1164.0
27.5°	860.0	894.2	949.0	1038.0	1122.9
30°	795.6	829.8	890.1	987.3	1077.7
32.5°	731.2	768.2	834.0	936.7	1033.9
35°	665.5	703.9	773.7	883.2	987.3
37.5°	601.2	639.5	717.6	831.2	936.7
40°	534.1	573.8	658.7	777.8	887.4
42.5°	465.6	508.0	599.8	723.0	836.7
45°	402.6	442.3	540.9	669.6	784.7
47.5°	356.0	382.1	482.0	614.9	734.0
50°	324.5	338.2	421.8	561.4	680.6
52.5°	293.0	304.0	365.6	506.7	629.9
55°	265.7	273.9	312.2	458.7	582.0
57.5°	238.3	246.5	271.1	410.8	525.8
60°	213.6	220.5	241.0	360.1	472.4
62.5°	190.3	195.8	217.7	312.2	414.9
65°	168.4	172.5	195.8	261.6	356.0
67.5°	146.5	150.6	173.9	213.6	293.0
70°	127.4	128.7	150.6	173.9	235.5
72.5°	108.2	109.6	127.4	141.0	180.8
75°	89.0	94.5	106.8	113.7	131.5
77.5°	72.6	79.4	86.3	89.0	89.0
80°	56.1	64.4	67.1	67.1	64.4
82.5°	41.1	47.9	49.3	46.6	43.8
85°	26.0	32.9	32.9	30.1	27.4
87.5°	12.3	17.8	17.8	16.4	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	14.41	15.90	14.77	16.22	16.53	18.33	19.83	18.70	20.14	20.46
	3H	15.98	17.32	16.36	17.65	18.01	19.75	21.10	20.13	21.43	21.79
	4H	16.59	17.85	16.99	18.20	18.58	20.17	21.43	20.57	21.78	22.16
	6H	17.09	18.25	17.50	18.61	19.01	20.39	21.55	20.80	21.92	22.31
	8H	17.26	18.37	17.69	18.76	19.16	20.45	21.55	20.87	21.94	22.34
	12H	17.38	18.44	17.81	18.82	19.25	20.48	21.54	20.91	21.92	22.35
4H	2H	15.14	16.40	15.54	16.75	17.13	18.46	19.72	18.86	20.07	20.45
	3H	16.92	17.97	17.33	18.37	18.77	20.07	21.11	20.48	21.51	21.92
	4H	17.66	18.60	18.09	19.01	19.45	20.60	21.54	21.03	21.95	22.39
	6H	18.29	19.11	18.75	19.55	20.01	20.94	21.76	21.40	22.20	22.66
	8H	18.52	19.29	18.99	19.73	20.20	21.04	21.80	21.50	22.25	22.71
	12H	18.70	19.38	19.18	19.86	20.33	21.11	21.79	21.59	22.27	22.74
8H	4H	18.06	18.82	18.52	19.27	19.73	20.70	21.47	21.17	21.91	22.38
	6H	18.84	19.48	19.34	19.97	20.45	21.14	21.77	21.64	22.27	22.74
	8H	19.17	19.74	19.68	20.25	20.73	21.30	21.87	21.81	22.38	22.87
	12H	19.44	19.94	19.95	20.44	21.00	21.44	21.94	21.95	22.43	22.99
12H	4H	18.10	18.78	18.58	19.26	19.73	20.70	21.39	21.19	21.86	22.34
	6H	18.93	19.50	19.44	20.01	20.49	21.16	21.73	21.67	22.24	22.72
	8H	19.32	19.82	19.83	20.32	20.88	21.37	21.87	21.88	22.36	22.93