

Scaled data based on original data using
LM-79-2019 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: S125RDR-S1270D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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: -

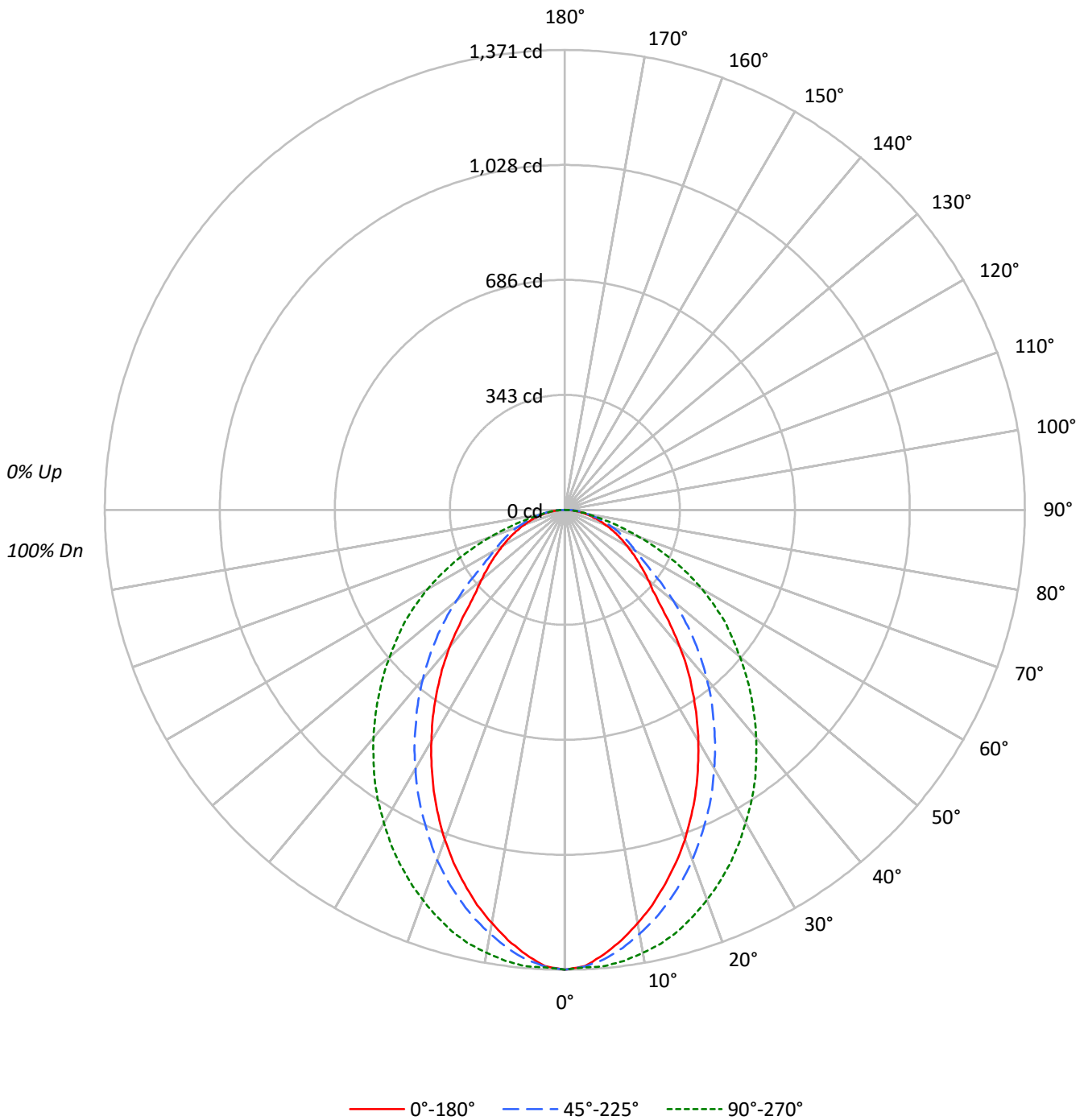
Summary

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 (Ain): 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																		
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

(END OF REPORT)