

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: P1175401

Luminaire Tested: S125RDR-H1270D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175401
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: S125RDR-H1270D830-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

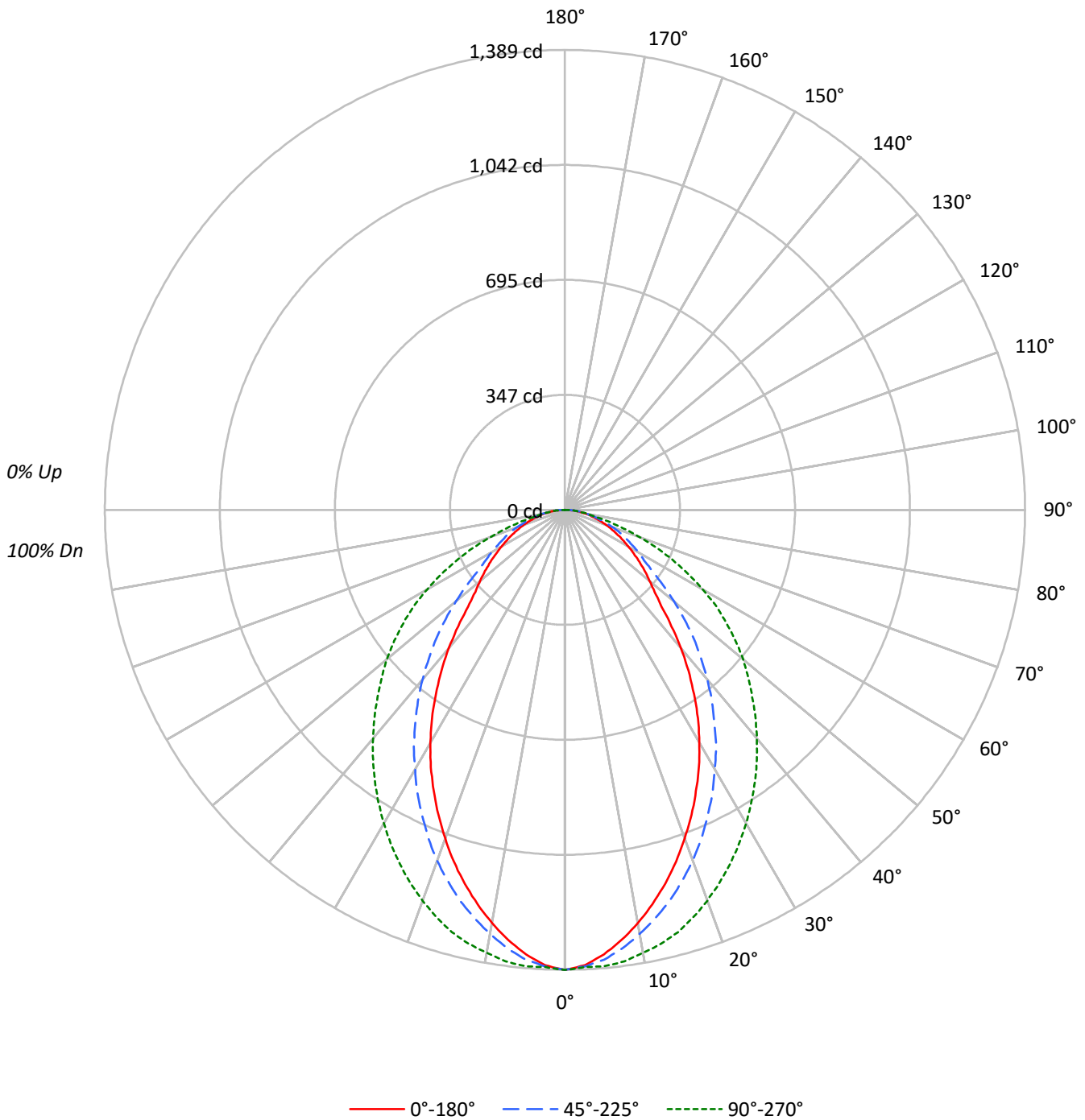
Lumens per Lamp: N/A
Luminaire Lumens: 2617.5 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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					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	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°	9566	9566	9566
5°	9317	9423	9562
10°	8864	9095	9499
15°	8331	8710	9408
20°	7743	8261	9204
25°	7115	7741	8960
30°	6451	7192	8692
35°	5710	6612	8407
40°	4898	6010	8099
45°	4020	5352	7787
50°	3576	4598	7517
55°	3299	3851	7135
60°	3038	3509	6610
65°	2825	3306	5841
70°	2635	3086	4773
75°	2479	2854	3578
80°	2339	2617	2573
85°	2141	2607	2141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7787 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	4.9
10°-20°	346.7	13.2
20°-30°	477.0	18.2
30°-40°	505.9	19.3
40°-50°	442.8	16.9
50°-60°	339.8	13.0
60°-70°	226.3	8.6
70°-80°	116.0	4.4
80°-90°	34.4	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°	952.3	36.4
0°-40°	1458.2	55.7
0°-60°	2240.7	85.6
0°-90°	2617.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1348	1366	1363	1373	1384	126
15°	1169	1196	1222	1280	1320	328
25°	936	968	1019	1105	1179	430
35°	679	711	787	902	1000	423
45°	413	447	550	686	800	326
55°	275	281	321	476	594	246
65°	173	175	203	267	358	173
75°	93	99	107	113	134	99
85°	27	31	33	32	27	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.4	1389.4	1389.4	1389.4	1389.4
2.5°	1376.4	1390.5	1379.9	1381.1	1382.3
5°	1348.1	1365.8	1363.4	1372.9	1383.5
7.5°	1310.3	1329.2	1335.1	1358.7	1375.2
10°	1267.9	1289.1	1300.9	1336.3	1358.7
12.5°	1219.5	1244.3	1263.2	1309.2	1342.2
15°	1168.8	1195.9	1221.9	1279.7	1319.8
17.5°	1114.6	1141.7	1175.9	1241.9	1290.3
20°	1056.8	1086.3	1127.5	1198.3	1256.1
22.5°	997.8	1028.5	1075.6	1153.5	1219.5
25°	936.5	968.3	1019.0	1105.1	1179.4
27.5°	876.3	905.8	964.8	1056.8	1138.1
30°	811.4	842.1	904.6	1006.0	1093.3
32.5°	746.6	777.2	849.2	955.3	1047.3
35°	679.3	711.2	786.7	902.3	1000.2
37.5°	612.1	645.1	728.9	848.0	951.8
40°	544.9	580.3	668.7	793.8	901.1
42.5°	476.5	514.2	607.4	740.7	851.5
45°	412.8	447.0	549.6	686.4	799.7
47.5°	366.8	386.9	488.3	631.0	750.1
50°	333.8	343.2	429.3	577.9	701.8
52.5°	304.3	310.2	371.5	528.4	648.7
55°	274.8	280.7	320.8	476.5	594.4
57.5°	246.5	250.0	283.1	424.6	540.2
60°	220.6	222.9	254.8	372.7	480.0
62.5°	197.0	198.1	227.6	319.6	419.9
65°	173.4	174.6	202.9	266.6	358.5
67.5°	152.1	152.1	179.3	218.2	299.6
70°	130.9	130.9	153.3	176.9	237.1
72.5°	112.0	114.4	129.7	142.7	185.2
75°	93.2	99.1	107.3	113.2	134.5
77.5°	75.5	82.6	86.1	88.5	89.6
80°	59.0	63.7	66.0	67.2	64.9
82.5°	43.6	47.2	48.4	48.4	44.8
85°	27.1	30.7	33.0	31.8	27.1
87.5°	13.0	17.7	18.9	16.5	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)