

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: P1175362

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

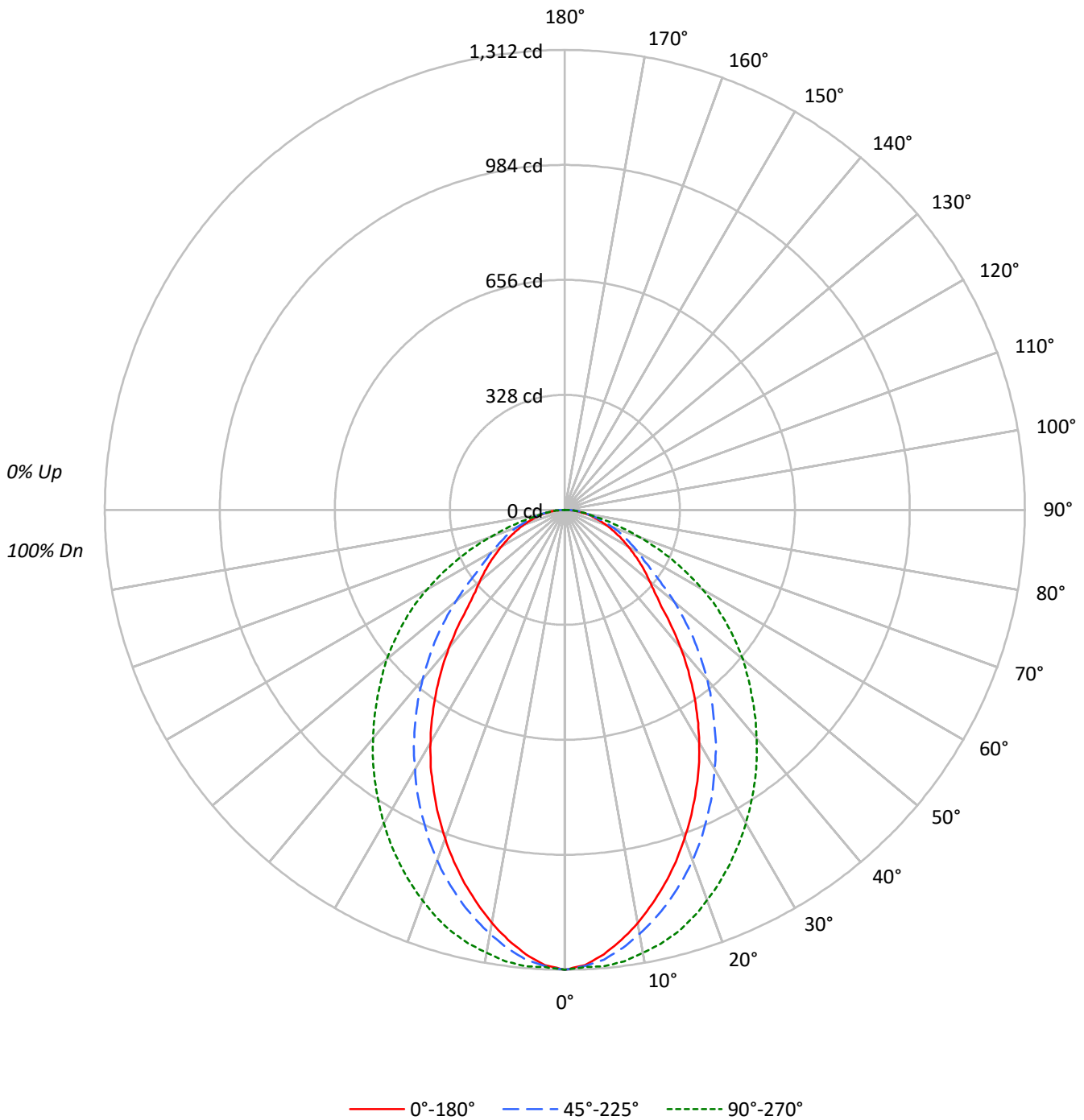
Lumens per Lamp: N/A
Luminaire Lumens: 2471.8 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				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

(END OF REPORT)