

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: P1175360

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175360
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-S1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

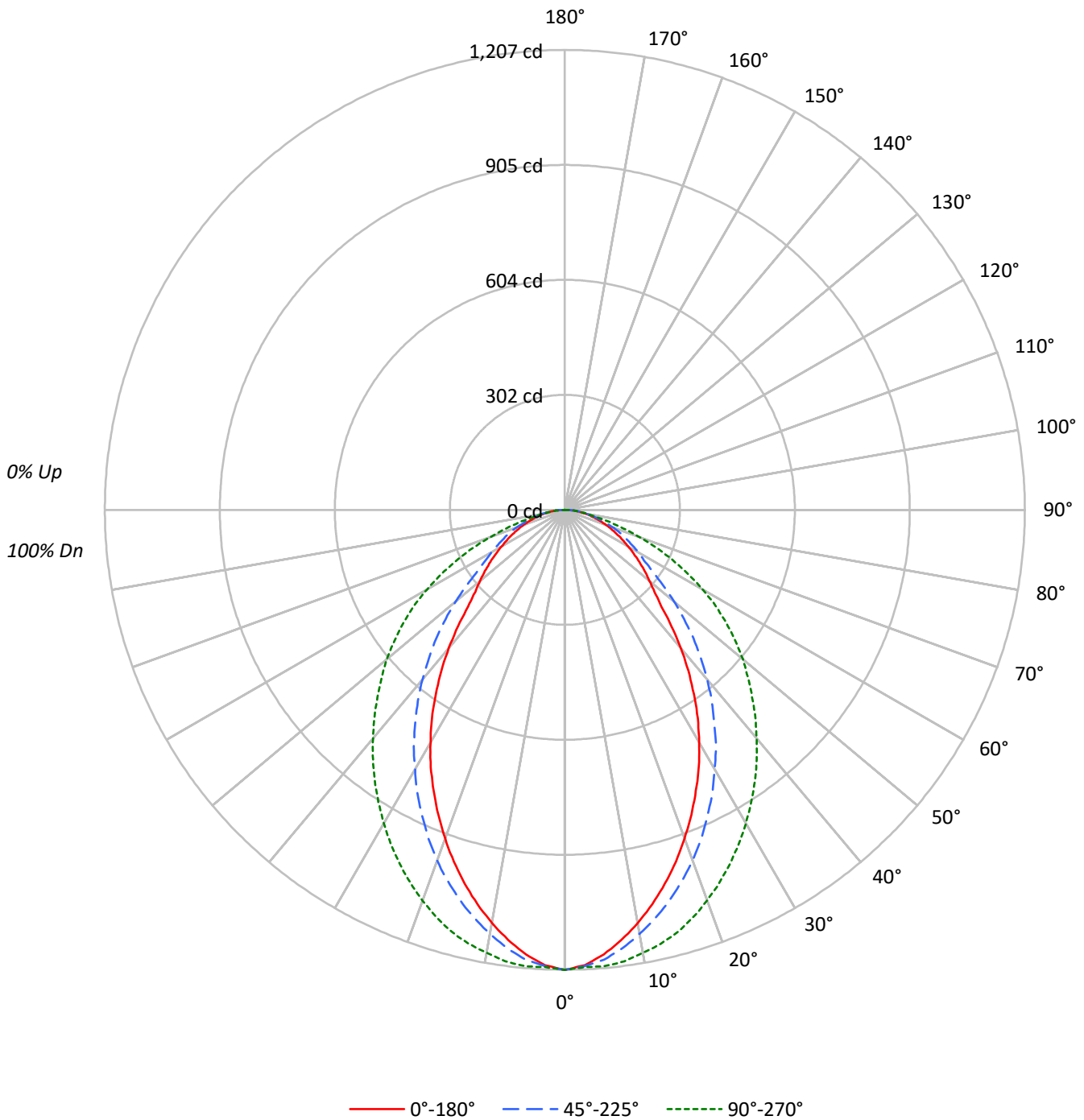
Lumens per Lamp: N/A
Luminaire Lumens: 2274.2 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	
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°	8312	8312	8312
5°	8095	8187	8308
10°	7702	7902	8253
15°	7239	7567	8174
20°	6728	7178	7997
25°	6182	6726	7785
30°	5605	6249	7552
35°	4962	5745	7304
40°	4255	5222	7037
45°	3493	4650	6765
50°	3106	3995	6531
55°	2867	3346	6200
60°	2638	3047	5744
65°	2454	2872	5075
70°	2289	2681	4147
75°	2155	2482	3107
80°	2030	2276	2236
85°	1864	2267	1864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	4.9
10°-20°	301.2	13.2
20°-30°	414.4	18.2
30°-40°	439.5	19.3
40°-50°	384.7	16.9
50°-60°	295.2	13.0
60°-70°	196.6	8.6
70°-80°	100.8	4.4
80°-90°	29.9	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°	827.4	36.4
0°-40°	1266.9	55.7
0°-60°	1946.8	85.6
0°-90°	2274.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1171	1187	1185	1193	1202	110
15°	1016	1039	1062	1112	1147	285
25°	814	841	885	960	1025	374
35°	590	618	684	784	869	368
45°	359	388	478	596	695	283
55°	239	244	279	414	516	214
65°	151	152	176	232	312	150
75°	81	86	93	98	117	86
85°	24	27	29	28	24	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1195.9	1208.2	1199.0	1200.0	1201.0
5°	1171.3	1186.7	1184.6	1192.8	1202.0
7.5°	1138.5	1154.9	1160.0	1180.5	1194.9
10°	1101.6	1120.1	1130.3	1161.0	1180.5
12.5°	1059.6	1081.1	1097.5	1137.5	1166.2
15°	1015.5	1039.1	1061.6	1111.9	1146.7
17.5°	968.4	992.0	1021.7	1079.1	1121.1
20°	918.2	943.8	979.7	1041.1	1091.4
22.5°	866.9	893.6	934.6	1002.2	1059.6
25°	813.7	841.3	885.4	960.2	1024.8
27.5°	761.4	787.0	838.2	918.2	988.9
30°	705.0	731.7	786.0	874.1	949.9
32.5°	648.7	675.3	737.8	830.0	910.0
35°	590.3	617.9	683.5	783.9	869.0
37.5°	531.8	560.5	633.3	736.8	827.0
40°	473.4	504.2	581.0	689.7	782.9
42.5°	414.0	446.8	527.7	643.5	739.9
45°	358.7	388.4	477.5	596.4	694.8
47.5°	318.7	336.1	424.2	548.2	651.7
50°	290.0	298.2	373.0	502.1	609.7
52.5°	264.4	269.5	322.8	459.1	563.6
55°	238.8	243.9	278.7	414.0	516.5
57.5°	214.2	217.2	245.9	368.9	469.3
60°	191.6	193.7	221.3	323.8	417.1
62.5°	171.1	172.2	197.8	277.7	364.8
65°	150.6	151.7	176.3	231.6	311.5
67.5°	132.2	132.2	155.8	189.6	260.3
70°	113.7	113.7	133.2	153.7	206.0
72.5°	97.4	99.4	112.7	124.0	160.9
75°	81.0	86.1	93.3	98.4	116.8
77.5°	65.6	71.7	74.8	76.9	77.9
80°	51.2	55.3	57.4	58.4	56.4
82.5°	37.9	41.0	42.0	42.0	38.9
85°	23.6	26.6	28.7	27.7	23.6
87.5°	11.3	15.4	16.4	14.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)