

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: P1175397

Luminaire Tested: S125RDR-H1090D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175397
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-H1090D930-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, 90 CRI LEDS
Ballast/Driver: -

Summary

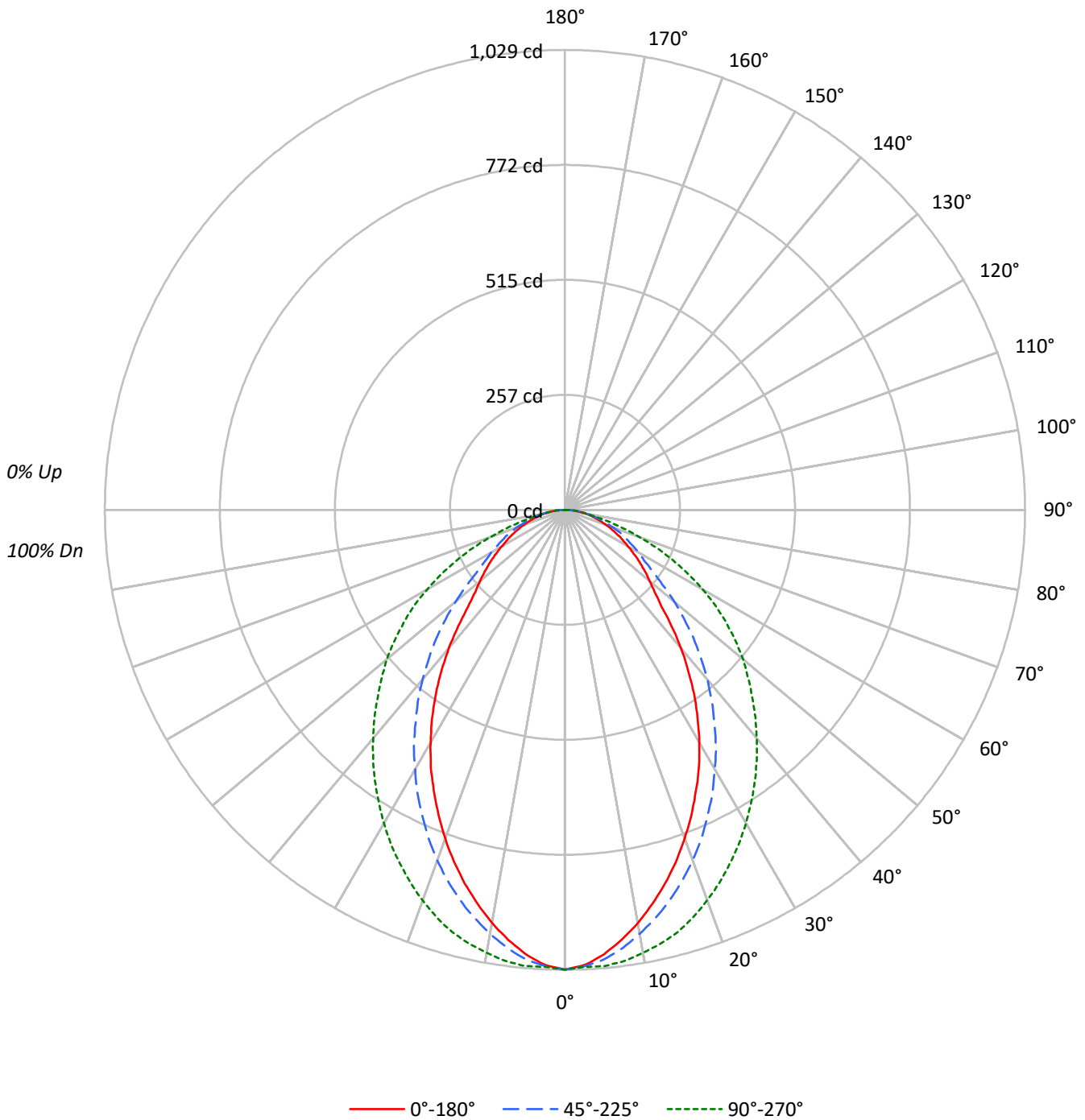
Lumens per Lamp: N/A
Luminaire Lumens: 1938.2 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	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°	7084	7084	7084
5°	6899	6978	7080
10°	6564	6735	7034
15°	6169	6450	6966
20°	5733	6117	6815
25°	5268	5733	6634
30°	4777	5325	6437
35°	4228	4896	6225
40°	3627	4451	5997
45°	2977	3963	5765
50°	2648	3405	5566
55°	2443	2851	5284
60°	2249	2597	4894
65°	2092	2447	4325
70°	1951	2285	3533
75°	1836	2115	2650
80°	1733	1939	1903
85°	1588	1935	1588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	4.9
10°-20°	256.7	13.2
20°-30°	353.2	18.2
30°-40°	374.6	19.3
40°-50°	327.9	16.9
50°-60°	251.6	13.0
60°-70°	167.6	8.6
70°-80°	85.9	4.4
80°-90°	25.5	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°	705.1	36.4
0°-40°	1079.7	55.7
0°-60°	1659.1	85.6
0°-90°	1938.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	998	1011	1010	1016	1024	93
15°	866	886	905	948	977	243
25°	693	717	755	818	873	318
35°	503	527	582	668	741	313
45°	306	331	407	508	592	241
55°	204	208	238	353	440	182
65°	128	129	150	197	266	128
75°	69	73	80	84	100	73
85°	20	23	24	24	20	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1019.2	1029.6	1021.8	1022.7	1023.5
5°	998.2	1011.3	1009.6	1016.5	1024.4
7.5°	970.3	984.2	988.6	1006.1	1018.3
10°	938.8	954.5	963.3	989.5	1006.1
12.5°	903.0	921.4	935.3	969.4	993.8
15°	865.5	885.5	904.8	947.6	977.2
17.5°	825.3	845.4	870.7	919.6	955.4
20°	782.5	804.3	834.9	887.3	930.1
22.5°	738.8	761.5	796.5	854.1	903.0
25°	693.4	717.0	754.6	818.3	873.3
27.5°	648.9	670.7	714.4	782.5	842.8
30°	600.8	623.6	669.8	744.9	809.6
32.5°	552.8	575.5	628.8	707.4	775.5
35°	503.0	526.6	582.5	668.1	740.6
37.5°	453.3	477.7	539.7	627.9	704.8
40°	403.5	429.7	495.2	587.7	667.2
42.5°	352.8	380.8	449.8	548.4	630.5
45°	305.7	331.0	407.0	508.3	592.1
47.5°	271.6	286.4	361.6	467.2	555.4
50°	247.2	254.1	317.9	427.9	519.6
52.5°	225.3	229.7	275.1	391.2	480.3
55°	203.5	207.9	237.5	352.8	440.2
57.5°	182.5	185.1	209.6	314.4	400.0
60°	163.3	165.1	188.6	276.0	355.4
62.5°	145.8	146.7	168.6	236.7	310.9
65°	128.4	129.3	150.2	197.4	265.5
67.5°	112.7	112.7	132.7	161.6	221.8
70°	96.9	96.9	113.5	131.0	175.5
72.5°	83.0	84.7	96.1	105.7	137.1
75°	69.0	73.4	79.5	83.8	99.6
77.5°	55.9	61.1	63.8	65.5	66.4
80°	43.7	47.2	48.9	49.8	48.0
82.5°	32.3	34.9	35.8	35.8	33.2
85°	20.1	22.7	24.5	23.6	20.1
87.5°	9.6	13.1	14.0	12.2	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)