

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: P1061459

Luminaire Tested: S125RDR-S1090D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061459
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-S1090D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

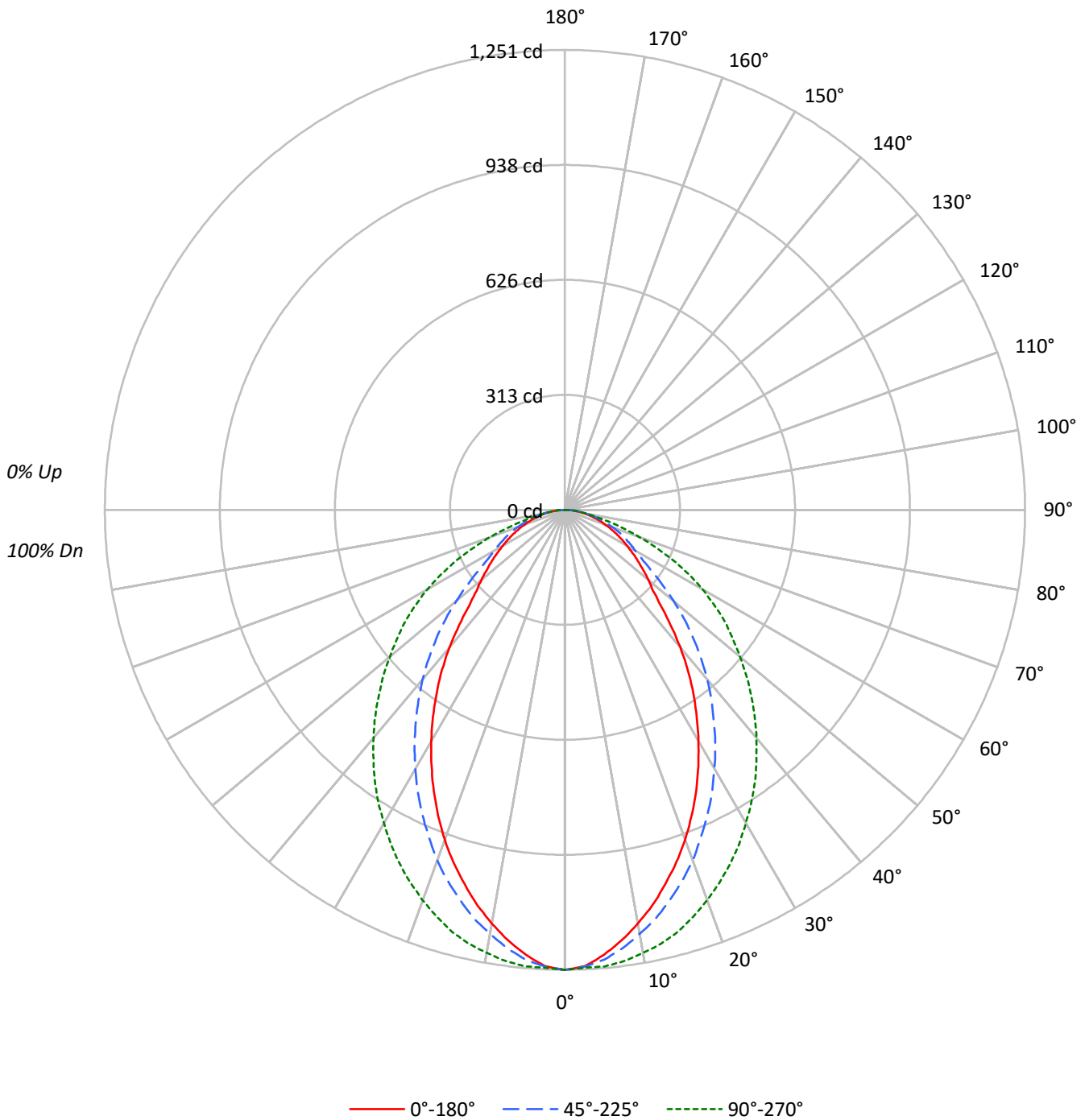
Lumens per Lamp: N/A
Luminaire Lumens: 2346.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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°	8616	8616	8616
5°	8399	8485	8615
10°	7988	8190	8557
15°	7512	7842	8466
20°	6998	7438	8280
25°	6411	6962	8073
30°	5774	6460	7822
35°	5107	5937	7577
40°	4383	5405	7281
45°	3578	4808	6975
50°	3174	4124	6655
55°	2911	3421	6378
60°	2685	3030	5939
65°	2506	2913	5295
70°	2341	2768	4328
75°	2163	2594	3192
80°	2034	2431	2331
85°	1880	2370	1975

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6975 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.9
10°-20°	311.9	13.3
20°-30°	428.7	18.3
30°-40°	454.4	19.4
40°-50°	396.6	16.9
50°-60°	301.3	12.8
60°-70°	201.9	8.6
70°-80°	104.1	4.4
80°-90°	31.2	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°	856.5	36.5
0°-40°	1310.8	55.9
0°-60°	2008.8	85.6
0°-90°	2346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1215	1228	1228	1236	1246	114
15°	1054	1074	1100	1149	1188	296
25°	844	870	916	993	1063	387
35°	608	643	706	806	901	379
45°	368	404	494	611	716	290
55°	242	250	285	419	531	217
65°	154	158	179	239	325	153
75°	81	86	98	104	120	87
85°	24	30	30	28	25	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1242.7	1251.4	1243.9	1243.9	1246.4
5°	1215.2	1227.7	1227.7	1236.4	1246.4
7.5°	1181.4	1195.2	1202.7	1222.7	1237.7
10°	1142.6	1157.6	1171.4	1201.4	1223.9
12.5°	1101.4	1117.6	1138.9	1177.7	1208.9
15°	1053.9	1073.9	1100.1	1148.9	1187.7
17.5°	1006.4	1026.4	1058.9	1116.4	1160.1
20°	955.1	976.4	1015.1	1077.6	1130.1
22.5°	900.1	923.9	965.1	1036.4	1097.6
25°	843.9	870.1	916.4	992.6	1062.6
27.5°	785.1	816.4	866.4	947.6	1025.1
30°	726.3	757.6	812.6	901.4	983.9
32.5°	667.6	701.3	761.3	855.1	943.9
35°	607.6	642.6	706.3	806.4	901.4
37.5°	548.8	583.8	655.1	758.8	855.1
40°	487.6	523.8	601.3	710.1	810.1
42.5°	425.1	463.8	547.6	660.1	763.8
45°	367.5	403.8	493.8	611.3	716.3
47.5°	325.0	348.8	440.1	561.3	670.1
50°	296.3	308.8	385.0	512.6	621.3
52.5°	267.5	277.5	333.8	462.6	575.1
55°	242.5	250.0	285.0	418.8	531.3
57.5°	217.5	225.0	247.5	375.0	480.1
60°	195.0	201.3	220.0	328.8	431.3
62.5°	173.8	178.8	198.8	285.0	378.8
65°	153.8	157.5	178.8	238.8	325.0
67.5°	133.8	137.5	158.8	195.0	267.5
70°	116.3	117.5	137.5	158.8	215.0
72.5°	98.8	100.0	116.3	128.8	165.0
75°	81.3	86.3	97.5	103.8	120.0
77.5°	66.3	72.5	78.8	81.3	81.3
80°	51.3	58.8	61.3	61.3	58.8
82.5°	37.5	43.8	45.0	42.5	40.0
85°	23.8	30.0	30.0	27.5	25.0
87.5°	11.3	16.3	16.3	15.0	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)