

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: P1061585

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061585
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-S1270D940-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, 90 CRI LEDS
Ballast/Driver: -

Summary

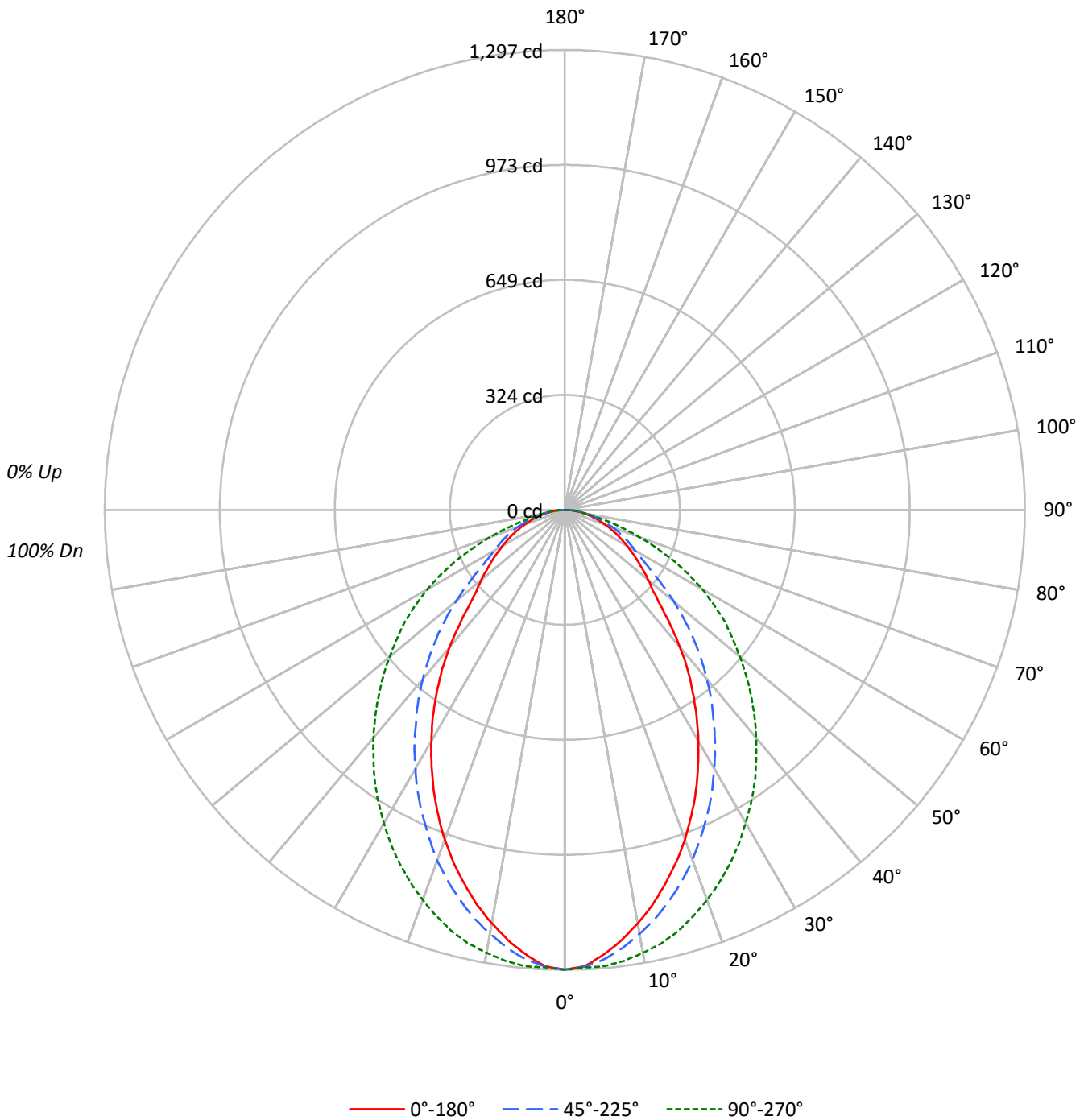
Lumens per Lamp: N/A
Luminaire Lumens: 2431.1 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
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°	8929	8929	8929
5°	8704	8793	8927
10°	8279	8487	8867
15°	7785	8127	8773
20°	7252	7708	8582
25°	6644	7214	8366
30°	5984	6695	8106
35°	5292	6153	7851
40°	4542	5600	7545
45°	3709	4983	7228
50°	3288	4274	6897
55°	3017	3546	6609
60°	2783	3140	6155
65°	2595	3019	5487
70°	2426	2869	4485
75°	2240	2690	3309
80°	2105	2518	2415
85°	1943	2457	2046

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.9
10°-20°	323.3	13.3
20°-30°	444.3	18.3
30°-40°	470.9	19.4
40°-50°	411.0	16.9
50°-60°	312.2	12.8
60°-70°	209.2	8.6
70°-80°	107.9	4.4
80°-90°	32.3	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°	887.5	36.5
0°-40°	1358.4	55.9
0°-60°	2081.7	85.6
0°-90°	2431.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1259	1272	1272	1281	1292	118
15°	1092	1113	1140	1191	1231	306
25°	874	902	950	1029	1101	401
35°	630	666	732	836	934	393
45°	381	418	512	634	742	301
55°	251	259	295	434	551	225
65°	159	163	185	247	337	158
75°	84	89	101	108	124	90
85°	25	31	31	28	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1287.8	1296.8	1289.0	1289.0	1291.6
5°	1259.3	1272.2	1272.2	1281.3	1291.6
7.5°	1224.3	1238.5	1246.3	1267.0	1282.6
10°	1184.1	1199.7	1213.9	1245.0	1268.3
12.5°	1141.4	1158.2	1180.2	1220.4	1252.8
15°	1092.1	1112.9	1140.1	1190.6	1230.7
17.5°	1042.9	1063.6	1097.3	1156.9	1202.2
20°	989.8	1011.8	1052.0	1116.7	1171.2
22.5°	932.8	957.4	1000.1	1074.0	1137.5
25°	874.5	901.7	949.6	1028.6	1101.2
27.5°	813.6	846.0	897.8	982.0	1062.3
30°	752.7	785.1	842.1	934.1	1019.6
32.5°	691.8	726.8	789.0	886.1	978.1
35°	629.6	665.9	732.0	835.6	934.1
37.5°	568.7	605.0	678.9	786.4	886.1
40°	505.3	542.8	623.1	735.9	839.5
42.5°	440.5	480.6	567.4	684.0	791.6
45°	380.9	418.5	511.7	633.5	742.3
47.5°	336.8	361.5	456.0	581.7	694.4
50°	307.0	320.0	399.0	531.2	643.9
52.5°	277.2	287.6	345.9	479.3	595.9
55°	251.3	259.1	295.4	434.0	550.6
57.5°	225.4	233.2	256.5	388.7	497.5
60°	202.1	208.6	228.0	340.7	447.0
62.5°	180.1	185.3	206.0	295.4	392.5
65°	159.3	163.2	185.3	247.4	336.8
67.5°	138.6	142.5	164.5	202.1	277.2
70°	120.5	121.8	142.5	164.5	222.8
72.5°	102.3	103.6	120.5	133.4	171.0
75°	84.2	89.4	101.1	107.5	124.4
77.5°	68.7	75.1	81.6	84.2	84.2
80°	53.1	60.9	63.5	63.5	60.9
82.5°	38.9	45.3	46.6	44.0	41.5
85°	24.6	31.1	31.1	28.5	25.9
87.5°	11.7	16.8	16.8	15.5	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)