

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: P1175410

Luminaire Tested: S125RDR-H375D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175410
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-H375D830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

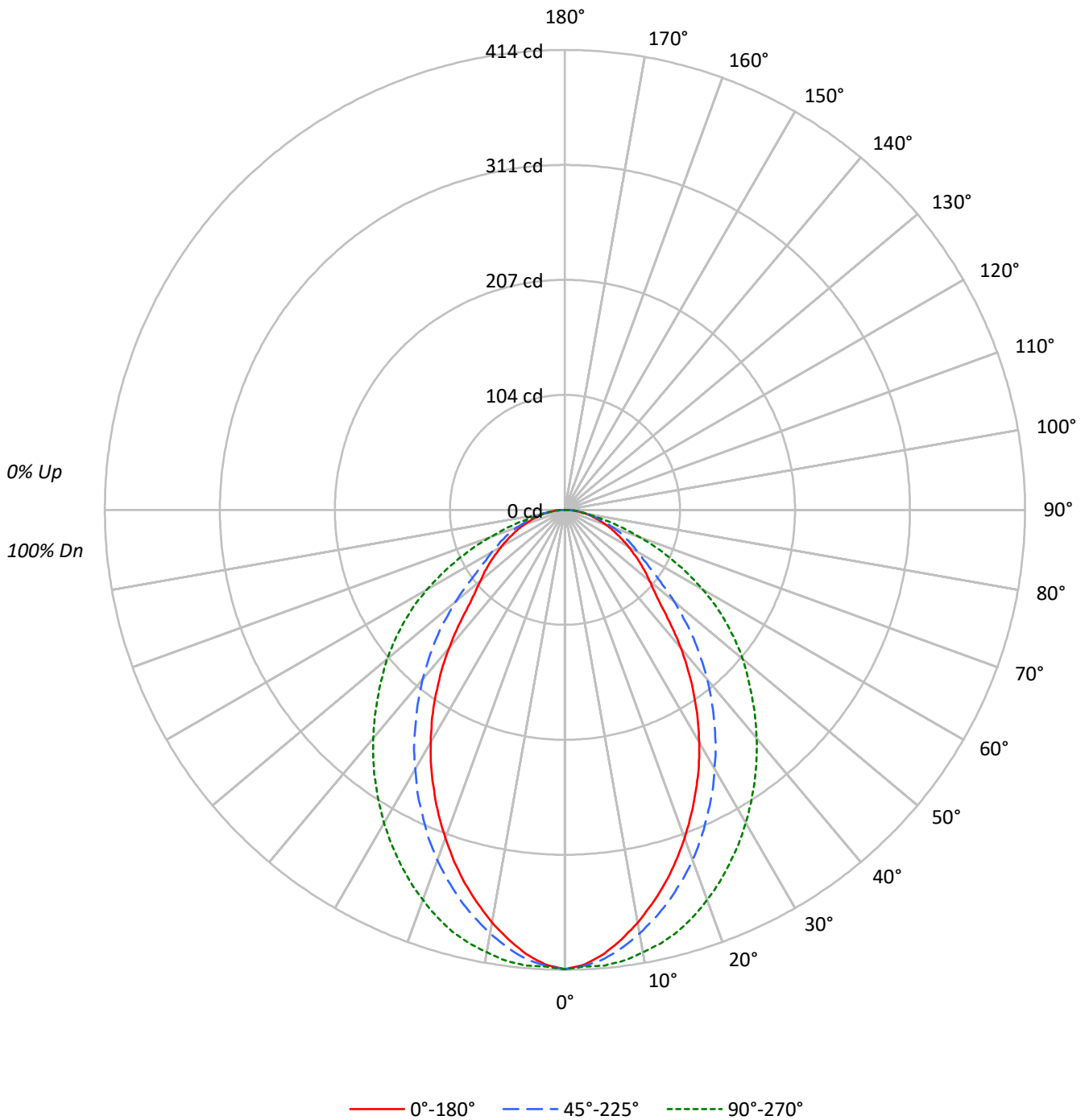
Lumens per Lamp: N/A
Luminaire Lumens: 779.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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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CATALOG NUMBER: S125RDR-H375D830-X4F0-XX-UDD-WVL-W

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°	2847	2847	2847
5°	2773	2805	2845
10°	2638	2707	2827
15°	2480	2592	2800
20°	2304	2459	2739
25°	2117	2304	2667
30°	1920	2140	2587
35°	1700	1968	2502
40°	1458	1789	2411
45°	1197	1593	2317
50°	1064	1369	2238
55°	982	1146	2124
60°	903	1044	1968
65°	841	984	1738
70°	785	918	1421
75°	737	849	1064
80°	698	781	765
85°	640	774	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	4.9
10°-20°	103.2	13.2
20°-30°	141.9	18.2
30°-40°	150.6	19.3
40°-50°	131.8	16.9
50°-60°	101.1	13.0
60°-70°	67.4	8.6
70°-80°	34.5	4.4
80°-90°	10.3	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°	283.4	36.4
0°-40°	434.0	55.7
0°-60°	666.9	85.6
0°-90°	779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	401	406	406	409	412	38
15°	348	356	364	381	393	97
25°	279	288	303	329	351	128
35°	202	212	234	268	298	126
45°	123	133	164	204	238	97
55°	82	84	96	142	177	73
65°	52	52	60	79	107	51
75°	28	30	32	34	40	29
85°	8	9	10	10	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.5	413.5	413.5	413.5	413.5
2.5°	409.6	413.9	410.7	411.0	411.4
5°	401.2	406.5	405.8	408.6	411.7
7.5°	390.0	395.6	397.4	404.4	409.3
10°	377.3	383.7	387.2	397.7	404.4
12.5°	363.0	370.3	375.9	389.6	399.5
15°	347.9	355.9	363.7	380.9	392.8
17.5°	331.7	339.8	350.0	369.6	384.0
20°	314.5	323.3	335.6	356.6	373.8
22.5°	297.0	306.1	320.1	343.3	363.0
25°	278.7	288.2	303.3	328.9	351.0
27.5°	260.8	269.6	287.1	314.5	338.7
30°	241.5	250.6	269.2	299.4	325.4
32.5°	222.2	231.3	252.7	284.3	311.7
35°	202.2	211.7	234.1	268.5	297.7
37.5°	182.2	192.0	216.9	252.4	283.3
40°	162.2	172.7	199.0	236.2	268.2
42.5°	141.8	153.0	180.8	220.4	253.4
45°	122.9	133.0	163.6	204.3	238.0
47.5°	109.2	115.1	145.3	187.8	223.2
50°	99.3	102.1	127.8	172.0	208.9
52.5°	90.6	92.3	110.6	157.3	193.1
55°	81.8	83.5	95.5	141.8	176.9
57.5°	73.4	74.4	84.2	126.4	160.8
60°	65.6	66.3	75.8	110.9	142.9
62.5°	58.6	59.0	67.7	95.1	125.0
65°	51.6	52.0	60.4	79.3	106.7
67.5°	45.3	45.3	53.4	64.9	89.2
70°	39.0	39.0	45.6	52.7	70.6
72.5°	33.3	34.0	38.6	42.5	55.1
75°	27.7	29.5	31.9	33.7	40.0
77.5°	22.5	24.6	25.6	26.3	26.7
80°	17.6	19.0	19.7	20.0	19.3
82.5°	13.0	14.0	14.4	14.4	13.3
85°	8.1	9.1	9.8	9.5	8.1
87.5°	3.9	5.3	5.6	4.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)