

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: P1175373

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175373
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-S375D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

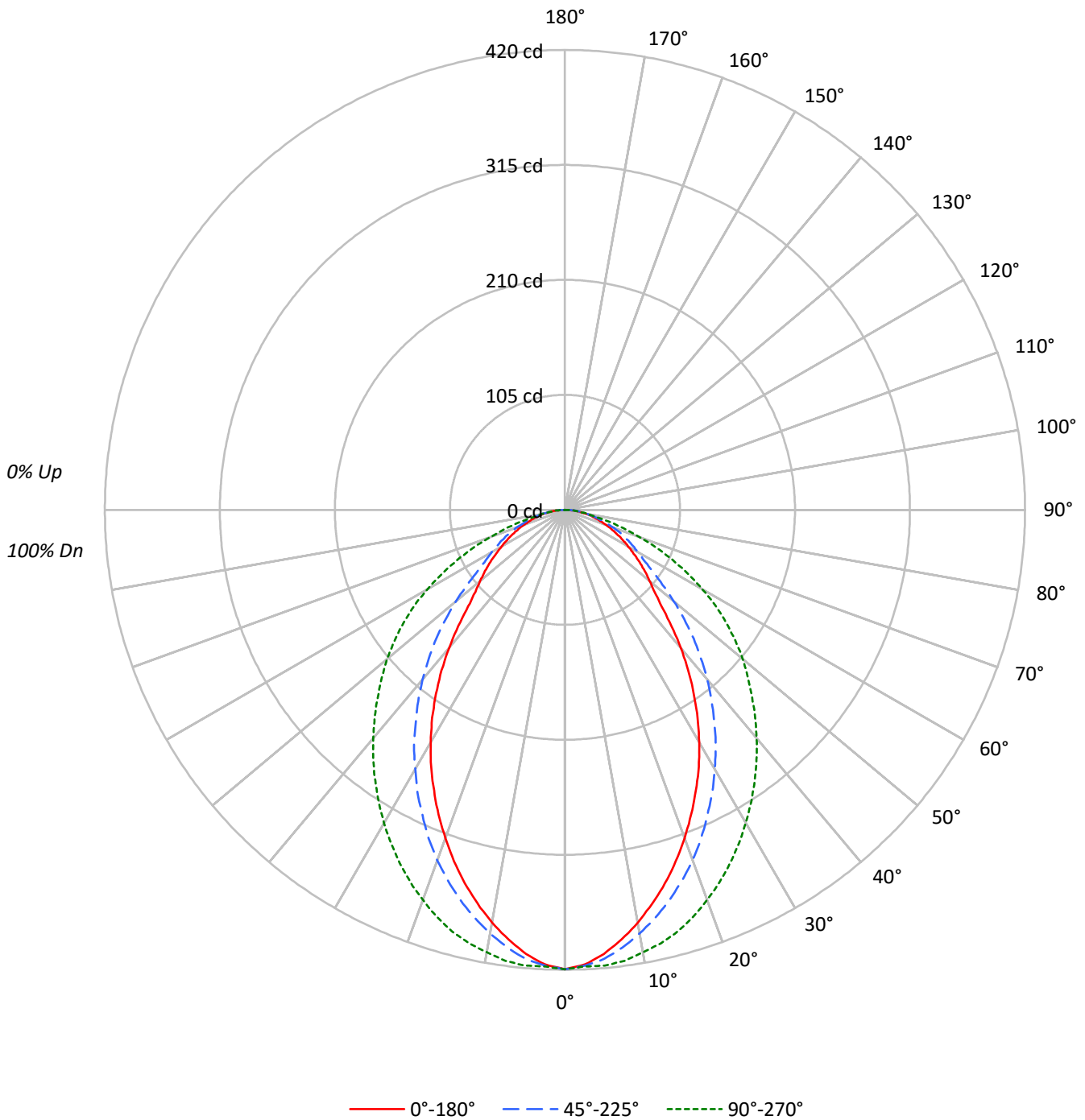
Lumens per Lamp: N/A
Luminaire Lumens: 790.4 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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									
RC	80									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	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°	2889	2889	2889
5°	2814	2845	2888
10°	2677	2746	2869
15°	2516	2630	2841
20°	2338	2495	2779
25°	2148	2338	2706
30°	1948	2172	2625
35°	1724	1997	2538
40°	1479	1815	2446
45°	1214	1616	2352
50°	1080	1388	2270
55°	996	1163	2155
60°	917	1059	1997
65°	854	999	1764
70°	795	932	1441
75°	748	862	1080
80°	706	789	777
85°	648	790	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	4.9
10°-20°	104.7	13.2
20°-30°	144.0	18.2
30°-40°	152.8	19.3
40°-50°	133.7	16.9
50°-60°	102.6	13.0
60°-70°	68.3	8.6
70°-80°	35.0	4.4
80°-90°	10.4	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°	287.6	36.4
0°-40°	440.3	55.7
0°-60°	676.6	85.6
0°-90°	790.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	790.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	407	412	412	415	418	38
15°	353	361	369	386	398	99
25°	283	292	308	334	356	130
35°	205	215	238	272	302	128
45°	125	135	166	207	242	98
55°	83	85	97	144	180	74
65°	52	53	61	80	108	52
75°	28	30	32	34	41	30
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°	419.6	419.6	419.6	419.6	419.6
2.5°	415.6	419.9	416.7	417.1	417.4
5°	407.1	412.4	411.7	414.6	417.8
7.5°	395.7	401.4	403.2	410.3	415.3
10°	382.9	389.3	392.8	403.5	410.3
12.5°	368.3	375.7	381.4	395.3	405.3
15°	353.0	361.1	369.0	386.4	398.5
17.5°	336.6	344.8	355.1	375.0	389.6
20°	319.1	328.0	340.5	361.9	379.3
22.5°	301.3	310.6	324.8	348.3	368.3
25°	282.8	292.4	307.7	333.7	356.2
27.5°	264.6	273.5	291.3	319.1	343.7
30°	245.0	254.3	273.2	303.8	330.2
32.5°	225.4	234.7	256.4	288.5	316.3
35°	205.1	214.8	237.6	272.5	302.0
37.5°	184.8	194.8	220.1	256.1	287.4
40°	164.5	175.2	201.9	239.7	272.1
42.5°	143.9	155.3	183.4	223.7	257.1
45°	124.7	135.0	166.0	207.3	241.5
47.5°	110.8	116.8	147.5	190.5	226.5
50°	100.8	103.6	129.6	174.5	211.9
52.5°	91.9	93.7	112.2	159.6	195.9
55°	83.0	84.8	96.9	143.9	179.5
57.5°	74.4	75.5	85.5	128.2	163.1
60°	66.6	67.3	76.9	112.5	145.0
62.5°	59.5	59.8	68.7	96.5	126.8
65°	52.4	52.7	61.3	80.5	108.3
67.5°	45.9	45.9	54.1	65.9	90.5
70°	39.5	39.5	46.3	53.4	71.6
72.5°	33.8	34.5	39.2	43.1	55.9
75°	28.1	29.9	32.4	34.2	40.6
77.5°	22.8	24.9	26.0	26.7	27.1
80°	17.8	19.2	19.9	20.3	19.6
82.5°	13.2	14.2	14.6	14.6	13.5
85°	8.2	9.3	10.0	9.6	8.2
87.5°	3.9	5.3	5.7	5.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)