

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: P1175365

Luminaire Tested: S125RDR-S375D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175365
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-S375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

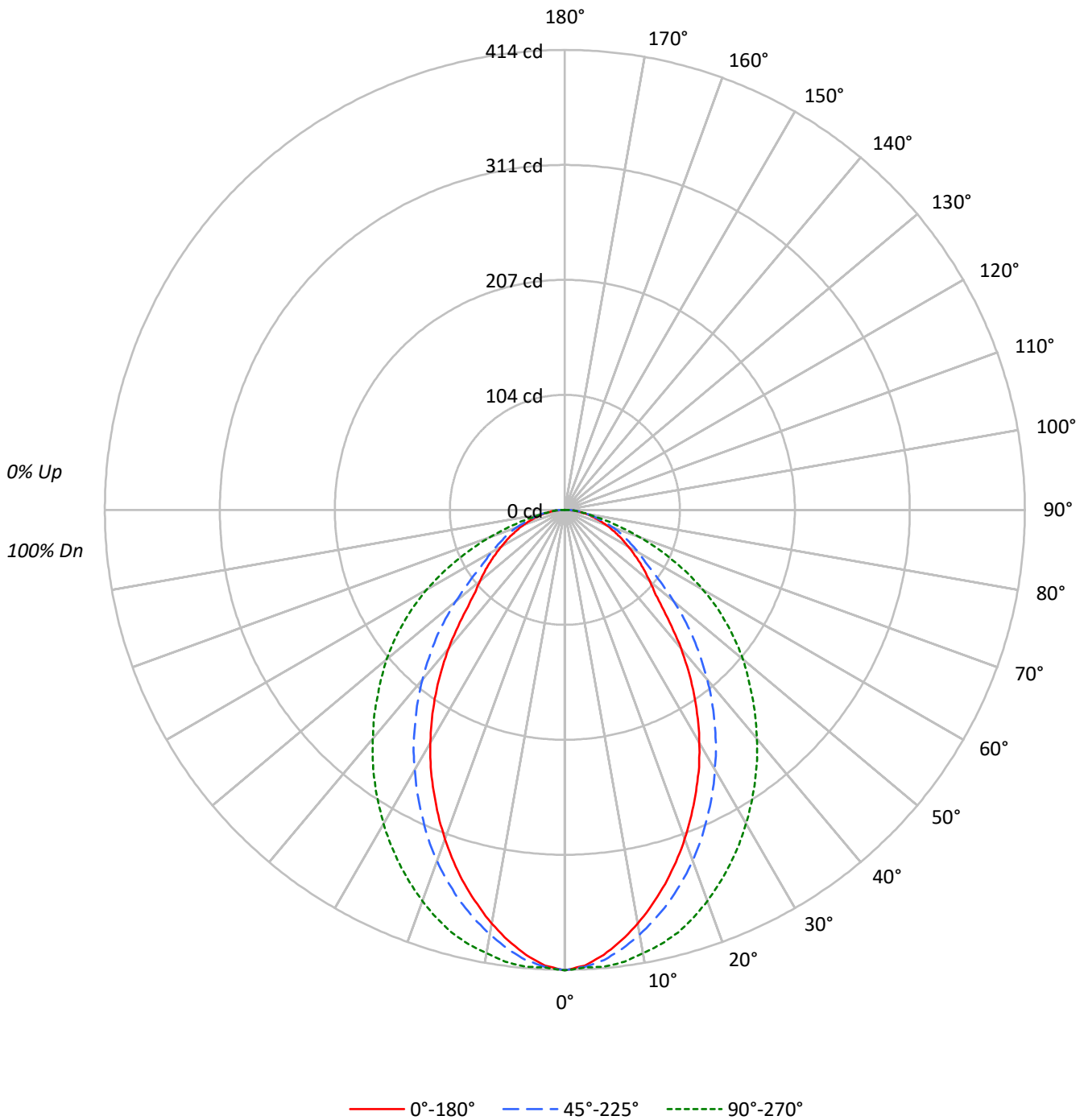
Lumens per Lamp: N/A
Luminaire Lumens: 780.9 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				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°	2854	2854	2854
5°	2780	2812	2853
10°	2645	2713	2834
15°	2486	2599	2807
20°	2310	2465	2746
25°	2123	2309	2673
30°	1925	2146	2593
35°	1704	1973	2508
40°	1461	1793	2416
45°	1200	1597	2323
50°	1067	1372	2243
55°	984	1149	2128
60°	906	1047	1972
65°	842	986	1743
70°	787	920	1423
75°	740	851	1067
80°	698	781	769
85°	640	782	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2323 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	4.9
10°-20°	103.4	13.2
20°-30°	142.3	18.2
30°-40°	150.9	19.3
40°-50°	132.1	16.9
50°-60°	101.4	13.0
60°-70°	67.5	8.6
70°-80°	34.6	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°	284.1	36.4
0°-40°	435.0	55.7
0°-60°	668.5	85.6
0°-90°	780.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	402	408	407	410	413	38
15°	349	357	365	382	394	98
25°	279	289	304	330	352	128
35°	203	212	235	269	298	126
45°	123	133	164	205	239	97
55°	82	84	96	142	177	73
65°	52	52	60	80	107	52
75°	28	30	32	34	40	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°	414.5	414.5	414.5	414.5	414.5
2.5°	410.6	414.9	411.7	412.1	412.4
5°	402.2	407.5	406.8	409.6	412.8
7.5°	390.9	396.6	398.3	405.4	410.3
10°	378.3	384.6	388.1	398.7	405.4
12.5°	363.8	371.2	376.9	390.6	400.4
15°	348.7	356.8	364.6	381.8	393.8
17.5°	332.5	340.6	350.8	370.5	385.0
20°	315.3	324.1	336.4	357.5	374.8
22.5°	297.7	306.8	320.9	344.1	363.8
25°	279.4	288.9	304.0	329.7	351.9
27.5°	261.4	270.2	287.8	315.3	339.6
30°	242.1	251.2	269.9	300.2	326.2
32.5°	222.7	231.9	253.4	285.0	312.5
35°	202.7	212.2	234.7	269.2	298.4
37.5°	182.6	192.5	217.5	253.0	284.0
40°	162.6	173.1	199.5	236.8	268.8
42.5°	142.2	153.4	181.2	221.0	254.1
45°	123.2	133.4	164.0	204.8	238.6
47.5°	109.4	115.4	145.7	188.3	223.8
50°	99.6	102.4	128.1	172.4	209.4
52.5°	90.8	92.5	110.8	157.6	193.5
55°	82.0	83.7	95.7	142.2	177.3
57.5°	73.5	74.6	84.5	126.7	161.2
60°	65.8	66.5	76.0	111.2	143.2
62.5°	58.8	59.1	67.9	95.4	125.3
65°	51.7	52.1	60.5	79.5	107.0
67.5°	45.4	45.4	53.5	65.1	89.4
70°	39.1	39.1	45.7	52.8	70.7
72.5°	33.4	34.1	38.7	42.6	55.2
75°	27.8	29.6	32.0	33.8	40.1
77.5°	22.5	24.6	25.7	26.4	26.7
80°	17.6	19.0	19.7	20.1	19.4
82.5°	13.0	14.1	14.4	14.4	13.4
85°	8.1	9.1	9.9	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)