

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: P1061620

Luminaire Tested: S125RDR-S375D840-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D840-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

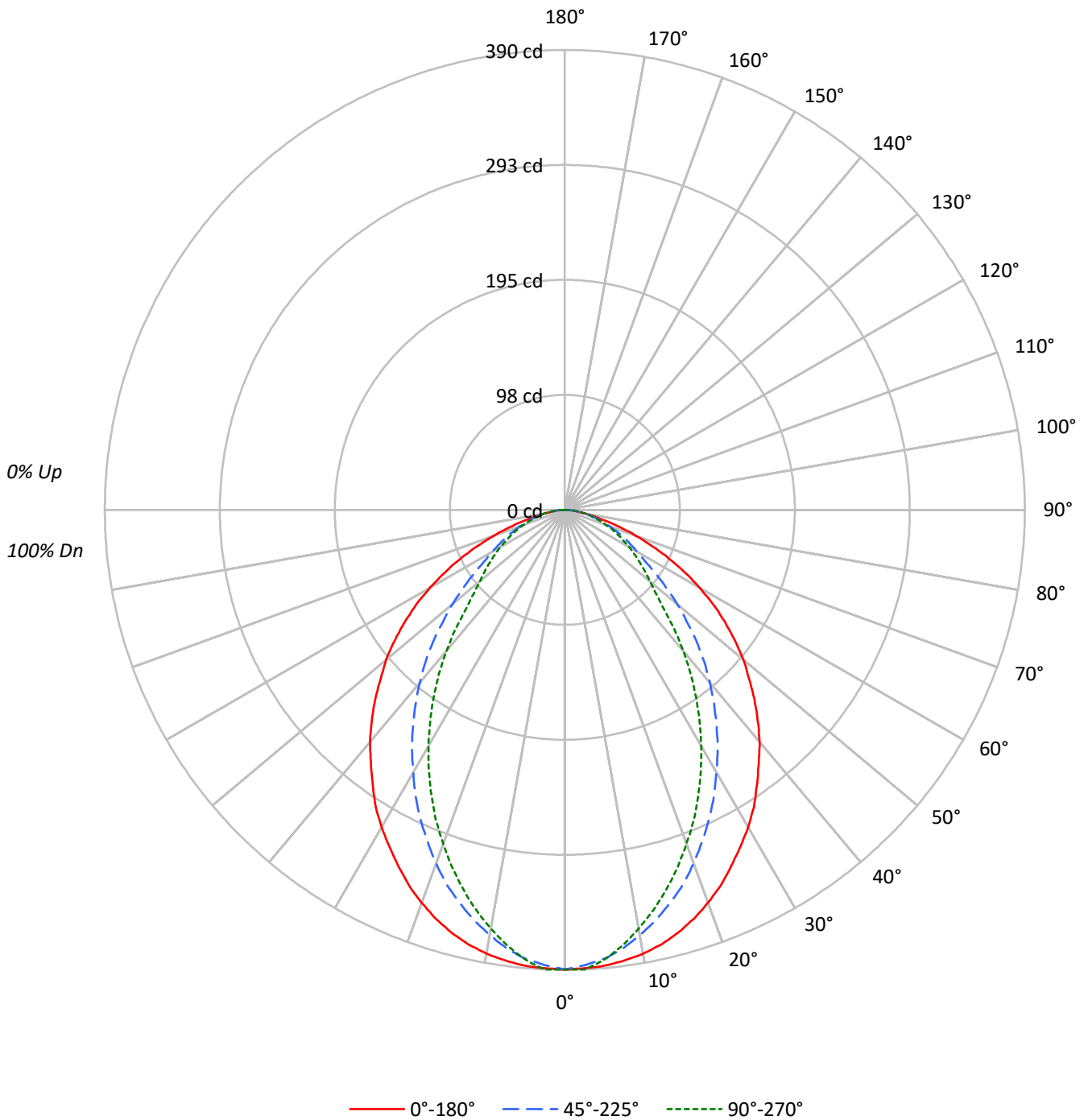
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 738.4 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
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									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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75															
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65					65															
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57															
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50					50															
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45					45															
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40					40															
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36					36															
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33					33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30					30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2684	2684	2684
5°	2682	2642	2647
10°	2672	2560	2521
15°	2646	2458	2374
20°	2599	2338	2208
25°	2534	2199	2032
30°	2470	2042	1837
35°	2387	1885	1629
40°	2309	1719	1404
45°	2213	1538	1150
50°	2118	1333	1007
55°	1987	1113	930
60°	1812	974	869
65°	1585	890	806
70°	1286	801	749
75°	923	732	697
80°	638	654	654
85°	466	569	600

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	4.9
10°-20°	98.0	13.3
20°-30°	135.5	18.3
30°-40°	144.3	19.5
40°-50°	126.8	17.2
50°-60°	96.1	13.0
60°-70°	62.4	8.5
70°-80°	30.9	4.2
80°-90°	8.1	1.1
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°	269.8	36.5
0°-40°	414.1	56.1
0°-60°	637.0	86.3
0°-90°	738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	388	387	382	384	383	37
15°	371	363	345	337	333	105
25°	334	315	290	275	268	154
35°	284	258	224	204	194	178
45°	227	196	158	130	118	175
55°	166	133	93	80	78	148
65°	97	72	55	50	50	96
75°	35	30	28	27	26	39
85°	6	7	7	7	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	389.8	389.8	389.8	389.8	389.8
2.5°	389.0	389.8	386.4	389.4	390.2
5°	388.1	387.3	382.2	383.5	383.0
7.5°	385.6	383.9	375.4	374.6	372.9
10°	382.2	377.9	366.1	363.1	360.6
12.5°	377.5	370.8	356.4	350.4	347.5
15°	371.2	362.7	344.9	336.9	333.1
17.5°	363.6	351.7	333.1	322.1	317.8
20°	354.7	340.7	319.1	306.4	301.3
22.5°	344.9	328.4	304.3	290.8	285.3
25°	333.5	315.3	289.5	274.7	267.5
27.5°	322.1	301.8	273.8	257.3	249.7
30°	310.7	287.4	256.9	239.1	231.1
32.5°	298.4	272.6	241.2	221.8	212.5
35°	284.0	257.8	224.3	204.0	193.8
37.5°	270.0	242.1	207.8	185.0	175.2
40°	256.9	227.3	191.3	166.3	156.2
42.5°	242.1	211.6	174.8	148.6	137.1
45°	227.3	195.5	157.9	129.5	118.1
47.5°	211.6	180.3	140.1	112.2	104.5
50°	197.7	164.6	124.4	99.0	94.0
52.5°	181.6	149.4	108.3	88.9	85.5
55°	165.5	132.9	92.7	80.0	77.5
57.5°	149.0	118.1	80.4	72.4	69.8
60°	131.6	102.8	70.7	64.3	63.1
62.5°	114.3	87.2	62.2	57.6	55.9
65°	97.3	72.4	54.6	50.4	49.5
67.5°	80.0	58.8	47.0	44.0	43.6
70°	63.9	47.8	39.8	38.1	37.2
72.5°	49.1	38.1	33.4	32.2	31.7
75°	34.7	30.5	27.5	26.7	26.2
77.5°	23.3	23.3	22.0	21.2	21.6
80°	16.1	16.9	16.5	16.5	16.5
82.5°	10.6	11.4	11.9	11.9	11.9
85°	5.9	6.8	7.2	7.2	7.6
87.5°	2.1	2.5	3.0	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)