

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: P1175356

Luminaire Tested: S125RDR-S1270D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175356
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-S1270D830-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

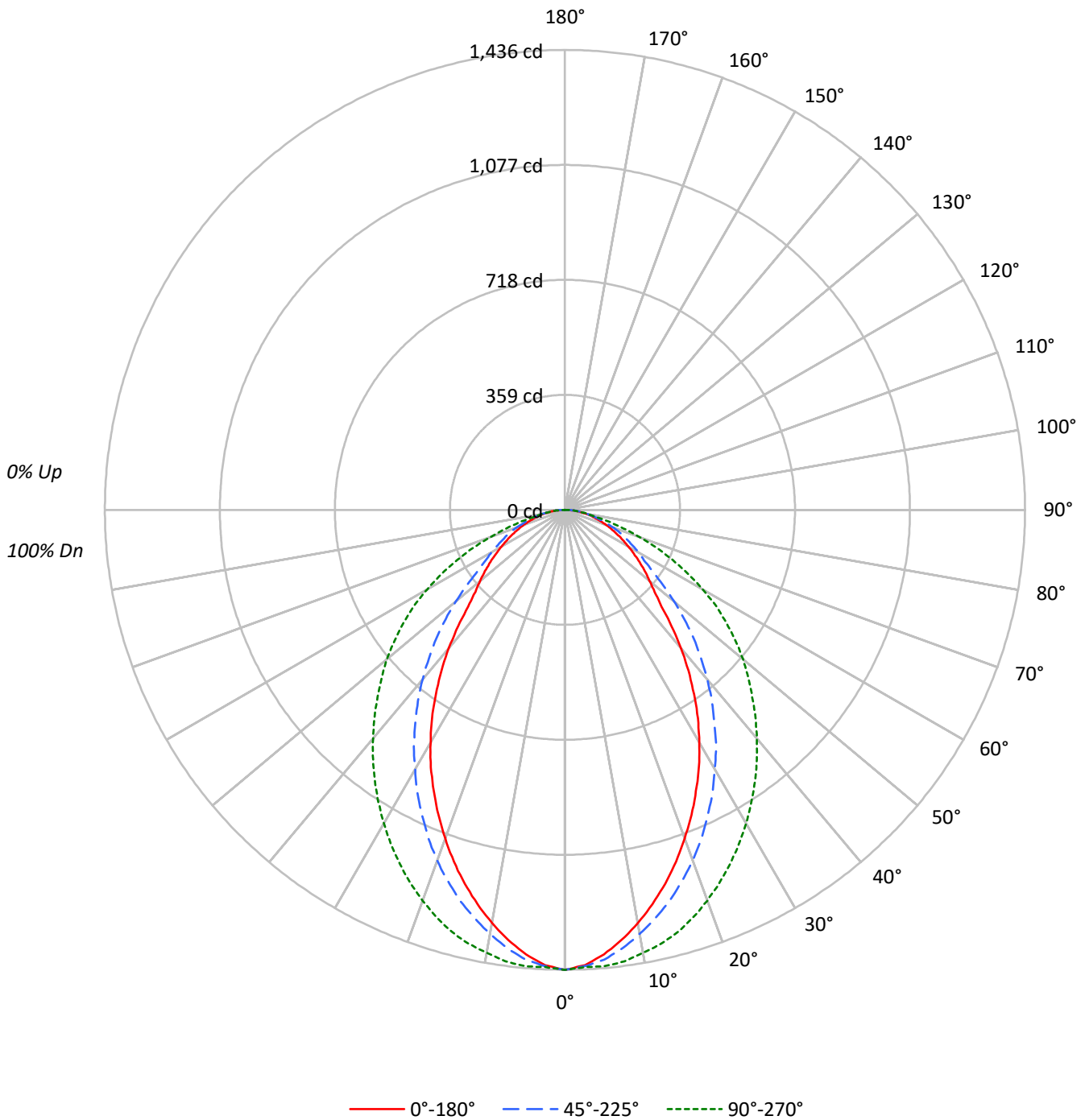
Lumens per Lamp: N/A
Luminaire Lumens: 2705.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	9889	9889	9889
5°	9632	9742	9885
10°	9164	9402	9820
15°	8613	9004	9725
20°	8005	8540	9514
25°	7355	8003	9263
30°	6669	7435	8986
35°	5903	6835	8690
40°	5063	6213	8372
45°	4155	5533	8050
50°	3695	4754	7771
55°	3410	3981	7376
60°	3140	3627	6833
65°	2920	3416	6039
70°	2724	3191	4934
75°	2562	2953	3698
80°	2419	2708	2661
85°	2212	2694	2212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	4.9
10°-20°	358.4	13.2
20°-30°	493.1	18.2
30°-40°	523.0	19.3
40°-50°	457.7	16.9
50°-60°	351.2	13.0
60°-70°	234.0	8.6
70°-80°	119.9	4.4
80°-90°	35.6	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°	984.4	36.4
0°-40°	1507.4	55.7
0°-60°	2316.3	85.6
0°-90°	2705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1394	1412	1410	1419	1430	130
15°	1208	1236	1263	1323	1364	339
25°	968	1001	1053	1142	1219	445
35°	702	735	813	933	1034	438
45°	427	462	568	710	827	337
55°	284	290	332	493	614	255
65°	179	180	210	276	371	179
75°	96	102	111	117	139	102
85°	28	32	34	33	28	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1422.9	1437.5	1426.5	1427.8	1429.0
5°	1393.6	1411.9	1409.5	1419.2	1430.2
7.5°	1354.6	1374.1	1380.2	1404.6	1421.7
10°	1310.7	1332.6	1344.8	1381.4	1404.6
12.5°	1260.7	1286.3	1305.8	1353.4	1387.5
15°	1208.3	1236.3	1263.2	1322.9	1364.3
17.5°	1152.2	1180.2	1215.6	1283.9	1333.9
20°	1092.5	1122.9	1165.6	1238.8	1298.5
22.5°	1031.5	1063.2	1112.0	1192.4	1260.7
25°	968.1	1001.0	1053.4	1142.4	1219.3
27.5°	905.9	936.4	997.4	1092.5	1176.6
30°	838.8	870.5	935.2	1040.0	1130.3
32.5°	771.8	803.5	877.9	987.6	1082.7
35°	702.3	735.2	813.2	932.7	1033.9
37.5°	632.8	666.9	753.5	876.6	983.9
40°	563.3	599.9	691.3	820.6	931.5
42.5°	492.6	531.6	627.9	765.7	880.3
45°	426.7	462.1	568.2	709.6	826.7
47.5°	379.2	399.9	504.8	652.3	775.4
50°	345.0	354.8	443.8	597.4	725.5
52.5°	314.6	320.7	384.1	546.2	670.6
55°	284.1	290.2	331.6	492.6	614.5
57.5°	254.8	258.5	292.6	438.9	558.4
60°	228.0	230.4	263.4	385.3	496.2
62.5°	203.6	204.8	235.3	330.4	434.1
65°	179.2	180.5	209.7	275.6	370.7
67.5°	157.3	157.3	185.3	225.6	309.7
70°	135.3	135.3	158.5	182.9	245.1
72.5°	115.8	118.3	134.1	147.5	191.4
75°	96.3	102.4	111.0	117.0	139.0
77.5°	78.0	85.3	89.0	91.4	92.7
80°	61.0	65.8	68.3	69.5	67.1
82.5°	45.1	48.8	50.0	50.0	46.3
85°	28.0	31.7	34.1	32.9	28.0
87.5°	13.4	18.3	19.5	17.1	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)