

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: P1175392

Luminaire Tested: S125RDR-H1090D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175392
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-H1090D830-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

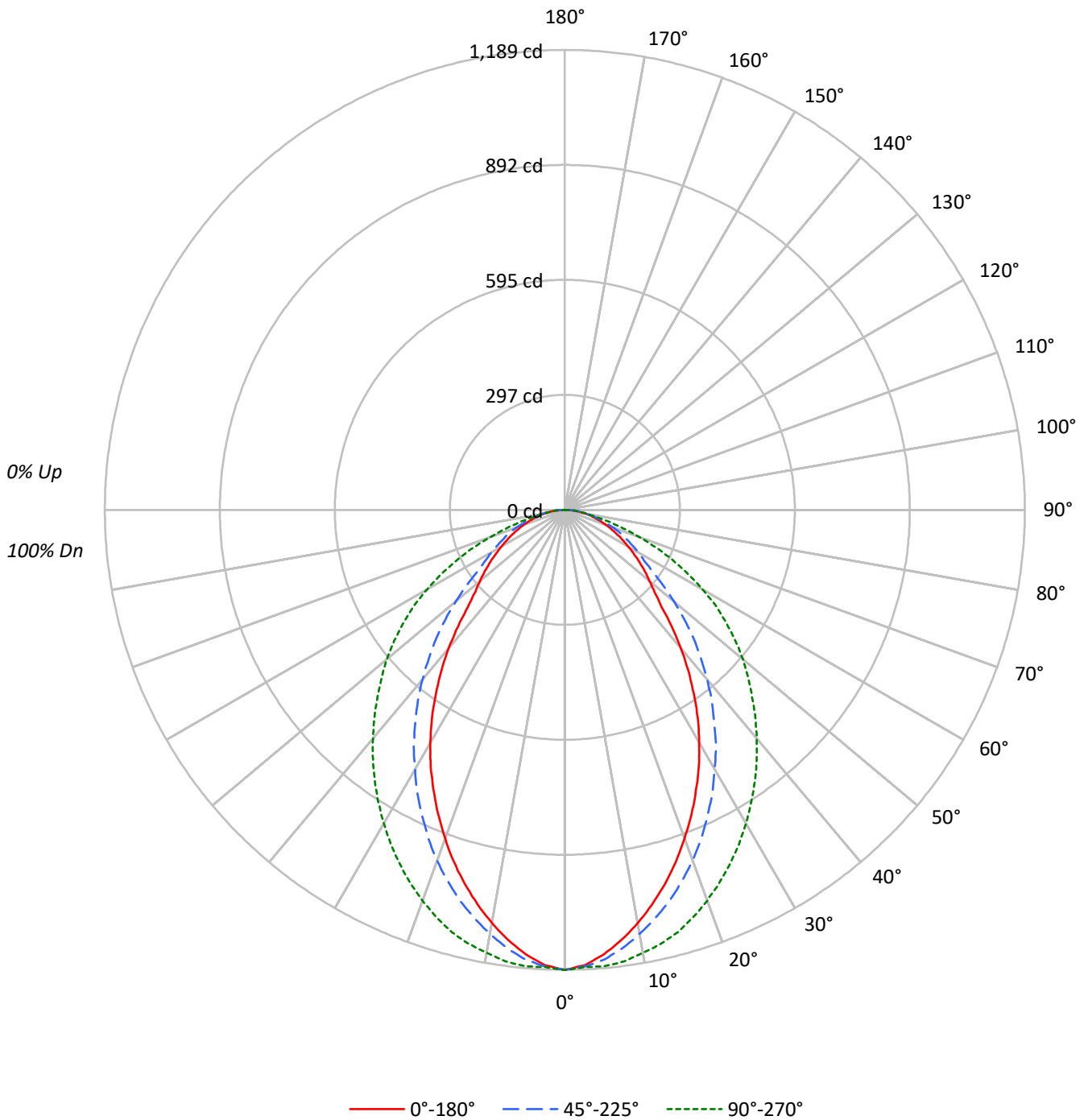
Lumens per Lamp: N/A
Luminaire Lumens: 2240.6 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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°	8189	8189	8189
5°	7976	8066	8185
10°	7588	7786	8132
15°	7132	7456	8053
20°	6628	7072	7878
25°	6090	6627	7670
30°	5522	6157	7441
35°	4888	5660	7197
40°	4192	5146	6933
45°	3441	4581	6665
50°	3060	3936	6434
55°	2823	3296	6108
60°	2600	3003	5658
65°	2418	2830	5000
70°	2257	2643	4085
75°	2123	2445	3062
80°	2002	2240	2201
85°	1833	2236	1833

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	4.9
10°-20°	296.8	13.2
20°-30°	408.3	18.2
30°-40°	433.0	19.3
40°-50°	379.0	16.9
50°-60°	290.8	13.0
60°-70°	193.7	8.6
70°-80°	99.3	4.4
80°-90°	29.5	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°	815.2	36.4
0°-40°	1248.2	55.7
0°-60°	1918.1	85.6
0°-90°	2240.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1154	1169	1167	1175	1184	108
15°	1000	1024	1046	1095	1130	280
25°	802	829	872	946	1010	368
35°	582	609	673	772	856	362
45°	353	383	470	588	684	279
55°	235	240	275	408	509	211
65°	148	149	174	228	307	148
75°	80	85	92	97	115	85
85°	23	26	28	27	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1178.2	1190.3	1181.3	1182.3	1183.3
5°	1154.0	1169.1	1167.1	1175.2	1184.3
7.5°	1121.7	1137.8	1142.9	1163.1	1177.2
10°	1085.3	1103.5	1113.6	1143.9	1163.1
12.5°	1043.9	1065.2	1081.3	1120.7	1148.9
15°	1000.5	1023.8	1046.0	1095.4	1129.8
17.5°	954.1	977.3	1006.6	1063.1	1104.5
20°	904.6	929.9	965.2	1025.8	1075.2
22.5°	854.1	880.4	920.8	987.4	1043.9
25°	801.6	828.9	872.3	946.0	1009.6
27.5°	750.1	775.4	825.9	904.6	974.3
30°	694.6	720.9	774.4	861.2	935.9
32.5°	639.1	665.3	726.9	817.8	896.5
35°	581.5	608.8	673.4	772.4	856.2
37.5°	524.0	552.3	623.9	725.9	814.8
40°	466.4	496.7	572.5	679.5	771.4
42.5°	407.9	440.2	520.0	634.0	728.9
45°	353.4	382.6	470.5	587.6	684.5
47.5°	314.0	331.2	418.0	540.1	642.1
50°	285.7	293.8	367.5	494.7	600.7
52.5°	260.5	265.5	318.0	452.3	555.3
55°	235.2	240.3	274.6	407.9	508.8
57.5°	211.0	214.0	242.3	363.5	462.4
60°	188.8	190.8	218.1	319.0	410.9
62.5°	168.6	169.6	194.9	273.6	359.4
65°	148.4	149.4	173.7	228.2	306.9
67.5°	130.2	130.2	153.5	186.8	256.4
70°	112.1	112.1	131.3	151.4	202.9
72.5°	95.9	97.9	111.1	122.2	158.5
75°	79.8	84.8	91.9	96.9	115.1
77.5°	64.6	70.7	73.7	75.7	76.7
80°	50.5	54.5	56.5	57.5	55.5
82.5°	37.4	40.4	41.4	41.4	38.4
85°	23.2	26.3	28.3	27.3	23.2
87.5°	11.1	15.1	16.2	14.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)