

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: P1175408

Luminaire Tested: S125RDR-H1270D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175408
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-H1270D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

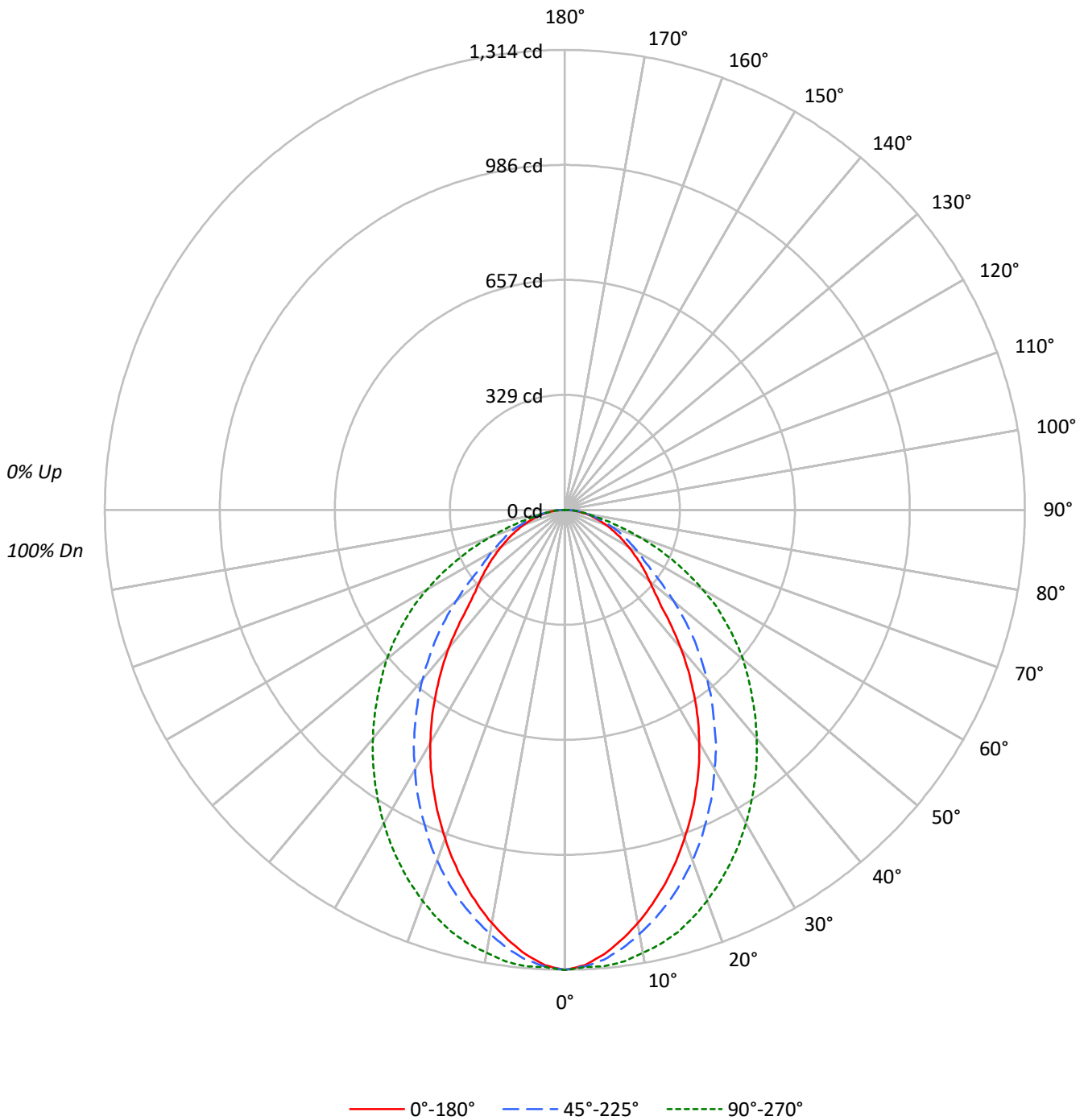
Lumens per Lamp: N/A
Luminaire Lumens: 2476.3 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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°	9050	9050	9050
5°	8815	8915	9047
10°	8386	8604	8987
15°	7882	8240	8900
20°	7326	7816	8707
25°	6731	7324	8477
30°	6104	6804	8224
35°	5402	6256	7953
40°	4633	5687	7662
45°	3802	5063	7366
50°	3383	4351	7111
55°	3121	3643	6751
60°	2874	3319	6253
65°	2672	3126	5526
70°	2494	2921	4515
75°	2344	2700	3384
80°	2212	2478	2435
85°	2030	2465	2030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	4.9
10°-20°	328.0	13.2
20°-30°	451.2	18.2
30°-40°	478.6	19.3
40°-50°	418.9	16.9
50°-60°	321.4	13.0
60°-70°	214.1	8.6
70°-80°	109.8	4.4
80°-90°	32.6	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°	900.9	36.4
0°-40°	1379.5	55.7
0°-60°	2119.9	85.6
0°-90°	2476.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1275	1292	1290	1299	1309	119
15°	1106	1131	1156	1211	1249	310
25°	886	916	964	1046	1116	407
35°	643	673	744	854	946	400
45°	390	423	520	649	756	308
55°	260	266	304	451	562	233
65°	164	165	192	252	339	163
75°	88	94	102	107	127	94
85°	26	29	31	30	26	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.4	1314.4	1314.4	1314.4	1314.4
2.5°	1302.2	1315.5	1305.5	1306.6	1307.7
5°	1275.4	1292.1	1289.9	1298.8	1308.9
7.5°	1239.7	1257.5	1263.1	1285.4	1301.0
10°	1199.5	1219.6	1230.7	1264.2	1285.4
12.5°	1153.8	1177.2	1195.0	1238.6	1269.8
15°	1105.8	1131.4	1156.0	1210.7	1248.6
17.5°	1054.4	1080.1	1112.5	1175.0	1220.7
20°	999.8	1027.7	1066.7	1133.7	1188.3
22.5°	944.0	973.0	1017.6	1091.3	1153.8
25°	886.0	916.1	964.1	1045.5	1115.8
27.5°	829.1	856.9	912.7	999.8	1076.8
30°	767.7	796.7	855.8	951.8	1034.4
32.5°	706.3	735.3	803.4	903.8	990.8
35°	642.7	672.8	744.3	853.6	946.2
37.5°	579.1	610.4	689.6	802.3	900.5
40°	515.5	549.0	632.7	750.9	852.5
42.5°	450.8	486.5	574.6	700.7	805.6
45°	390.5	422.9	520.0	649.4	756.5
47.5°	347.0	366.0	461.9	597.0	709.7
50°	315.8	324.7	406.2	546.8	663.9
52.5°	287.9	293.5	351.5	499.9	613.7
55°	260.0	265.6	303.5	450.8	562.4
57.5°	233.2	236.6	267.8	401.7	511.0
60°	208.7	210.9	241.0	352.6	454.1
62.5°	186.3	187.5	215.4	302.4	397.2
65°	164.0	165.1	191.9	252.2	339.2
67.5°	143.9	143.9	169.6	206.4	283.4
70°	123.9	123.9	145.1	167.4	224.3
72.5°	106.0	108.2	122.7	135.0	175.2
75°	88.1	93.7	101.5	107.1	127.2
77.5°	71.4	78.1	81.5	83.7	84.8
80°	55.8	60.3	62.5	63.6	61.4
82.5°	41.3	44.6	45.7	45.7	42.4
85°	25.7	29.0	31.2	30.1	25.7
87.5°	12.3	16.7	17.9	15.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)