

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: P1061540

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D840-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

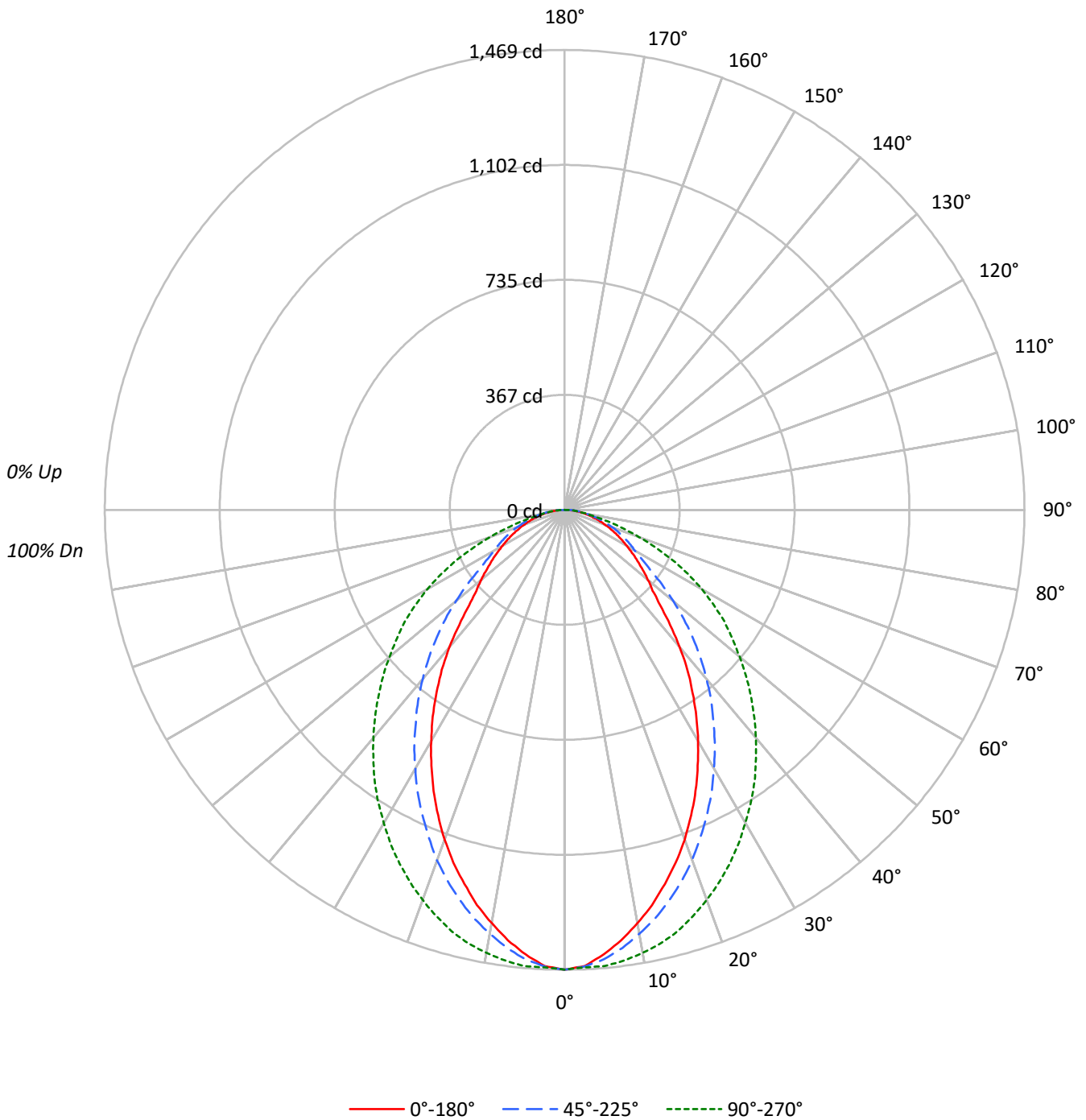
Lumens per Lamp: N/A
Luminaire Lumens: 2753.2 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10112	10112	10112
5°	9857	9958	10110
10°	9376	9612	10043
15°	8816	9203	9935
20°	8213	8730	9718
25°	7524	8170	9474
30°	6777	7582	9180
35°	5994	6968	8891
40°	5143	6343	8545
45°	4201	5643	8186
50°	3724	4841	7811
55°	3416	4015	7486
60°	3152	3556	6971
65°	2941	3418	6215
70°	2746	3249	5081
75°	2538	3043	3748
80°	2387	2851	2736
85°	2204	2781	2315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8186 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	4.9
10°-20°	366.1	13.3
20°-30°	503.2	18.3
30°-40°	533.2	19.4
40°-50°	465.5	16.9
50°-60°	353.6	12.8
60°-70°	236.9	8.6
70°-80°	122.2	4.4
80°-90°	36.6	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°	1005.2	36.5
0°-40°	1538.4	55.9
0°-60°	2357.5	85.6
0°-90°	2753.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1426	1441	1441	1451	1463	133
15°	1237	1260	1291	1348	1394	347
25°	990	1021	1075	1165	1247	454
35°	713	754	829	946	1058	445
45°	431	474	580	718	841	341
55°	285	293	334	492	624	255
65°	180	185	210	280	382	179
75°	95	101	114	122	141	102
85°	28	35	35	32	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.7	1468.7	1468.7	1468.7	1468.7
2.5°	1458.4	1468.7	1459.9	1459.9	1462.8
5°	1426.1	1440.8	1440.8	1451.0	1462.8
7.5°	1386.5	1402.6	1411.4	1434.9	1452.5
10°	1341.0	1358.6	1374.8	1410.0	1436.4
12.5°	1292.6	1311.7	1336.6	1382.1	1418.8
15°	1236.8	1260.3	1291.1	1348.3	1393.8
17.5°	1181.1	1204.6	1242.7	1310.2	1361.6
20°	1120.9	1145.9	1191.4	1264.7	1326.3
22.5°	1056.4	1084.3	1132.7	1216.3	1288.2
25°	990.4	1021.2	1075.4	1164.9	1247.1
27.5°	921.4	958.1	1016.8	1112.1	1203.1
30°	852.4	889.1	953.7	1057.8	1154.7
32.5°	783.5	823.1	893.5	1003.6	1107.7
35°	713.1	754.1	829.0	946.3	1057.8
37.5°	644.1	685.2	768.8	890.6	1003.6
40°	572.2	614.8	705.7	833.4	950.7
42.5°	498.8	544.3	642.6	774.7	896.5
45°	431.4	473.9	579.5	717.5	840.7
47.5°	381.5	409.3	516.5	658.8	786.4
50°	347.7	362.4	451.9	601.5	729.2
52.5°	314.0	325.7	391.7	542.9	674.9
55°	284.6	293.4	334.5	491.5	623.6
57.5°	255.3	264.1	290.5	440.2	563.4
60°	228.9	236.2	258.2	385.9	506.2
62.5°	203.9	209.8	233.3	334.5	444.6
65°	180.5	184.9	209.8	280.2	381.5
67.5°	157.0	161.4	186.3	228.9	314.0
70°	136.4	137.9	161.4	186.3	252.4
72.5°	115.9	117.4	136.4	151.1	193.7
75°	95.4	101.2	114.4	121.8	140.9
77.5°	77.8	85.1	92.4	95.4	95.4
80°	60.2	69.0	71.9	71.9	69.0
82.5°	44.0	51.4	52.8	49.9	47.0
85°	27.9	35.2	35.2	32.3	29.3
87.5°	13.2	19.1	19.1	17.6	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)