

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: P1061539

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061539
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-S1270D840-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

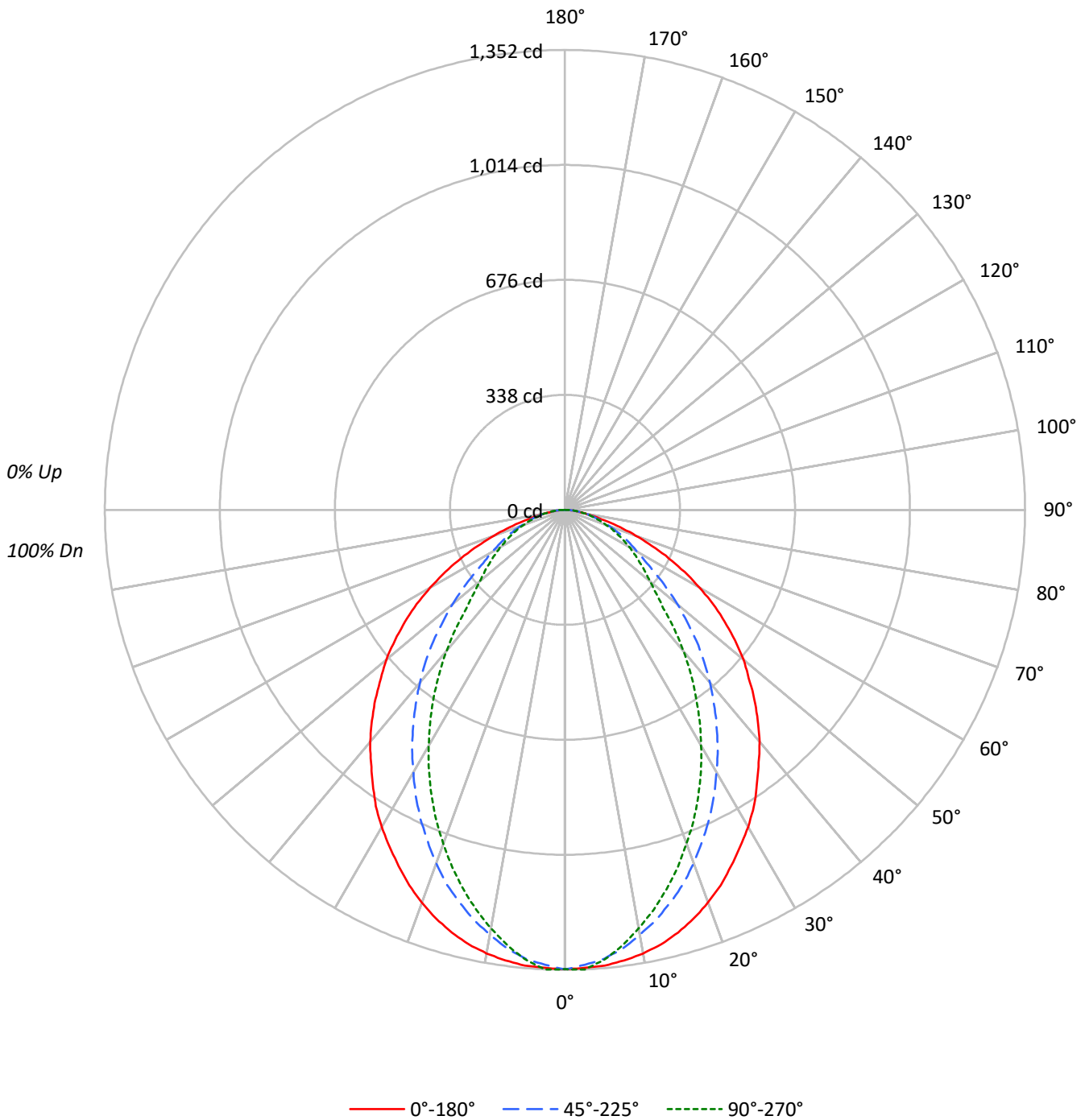
Lumens per Lamp: N/A
Luminaire Lumens: 2558.6 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1061539

CATALOG NUMBER: S125RDR-S1270D840-X4F0-XX-UDD-WVL-B

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°	9299	9299	9299
5°	9295	9152	9173
10°	9258	8869	8736
15°	9167	8520	8227
20°	9004	8102	7650
25°	8779	7621	7041
30°	8558	7077	6366
35°	8271	6533	5646
40°	8001	5958	4863
45°	7668	5326	3984
50°	7336	4618	3488
55°	6883	3856	3222
60°	6281	3372	3009
65°	5495	3082	2796
70°	4457	2776	2599
75°	3200	2535	2418
80°	2209	2268	2268
85°	1619	1967	2086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7668 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	4.9
10°-20°	339.7	13.3
20°-30°	469.5	18.3
30°-40°	500.0	19.5
40°-50°	439.3	17.2
50°-60°	333.1	13.0
60°-70°	216.3	8.5
70°-80°	107.2	4.2
80°-90°	28.1	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°	934.7	36.5
0°-40°	1434.8	56.1
0°-60°	2207.1	86.3
0°-90°	2558.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1345	1342	1324	1329	1327	128
15°	1286	1257	1195	1167	1154	362
25°	1156	1092	1003	952	927	532
35°	984	893	777	707	672	616
45°	788	678	547	449	409	607
55°	573	460	321	277	268	511
65°	337	251	189	174	172	333
75°	120	106	95	92	91	134
85°	20	24	25	25	26	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1347.7	1350.6	1338.9	1349.2	1352.1
5°	1344.8	1341.8	1324.2	1328.6	1327.2
7.5°	1336.0	1330.1	1300.8	1297.8	1292.0
10°	1324.2	1309.6	1268.5	1258.2	1249.5
12.5°	1308.1	1284.6	1234.8	1214.3	1204.0
15°	1286.1	1256.8	1195.2	1167.3	1154.1
17.5°	1259.7	1218.7	1154.1	1116.0	1101.3
20°	1228.9	1180.5	1105.7	1061.7	1044.1
22.5°	1195.2	1138.0	1054.4	1007.5	988.4
25°	1155.6	1092.5	1003.1	951.8	926.8
27.5°	1116.0	1045.6	948.8	891.6	865.2
30°	1076.4	995.7	890.2	828.6	800.7
32.5°	1033.9	944.4	835.9	768.4	736.2
35°	984.0	893.1	777.2	706.8	671.7
37.5°	935.6	838.8	720.0	640.9	607.1
40°	890.2	787.5	662.9	576.3	541.1
42.5°	838.8	733.2	605.7	514.7	475.1
45°	787.5	677.5	547.0	448.7	409.2
47.5°	733.2	624.7	485.4	388.6	362.2
50°	684.9	570.5	431.1	343.2	325.6
52.5°	629.1	517.7	375.4	308.0	296.2
55°	573.4	460.5	321.2	277.2	268.4
57.5°	516.2	409.2	278.6	250.8	242.0
60°	456.1	356.4	244.9	222.9	218.5
62.5°	396.0	302.1	215.6	199.4	193.6
65°	337.3	250.8	189.2	174.5	171.6
67.5°	277.2	203.8	162.8	152.5	151.0
70°	221.4	165.7	137.9	132.0	129.1
72.5°	170.1	132.0	115.9	111.5	110.0
75°	120.3	105.6	95.3	92.4	90.9
77.5°	80.7	80.7	76.3	73.3	74.8
80°	55.7	58.7	57.2	57.2	57.2
82.5°	36.7	39.6	41.1	41.1	41.1
85°	20.5	23.5	24.9	24.9	26.4
87.5°	7.3	8.8	10.3	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)