

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: P1061497

Luminaire Tested: S125RDR-S1090D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D940-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

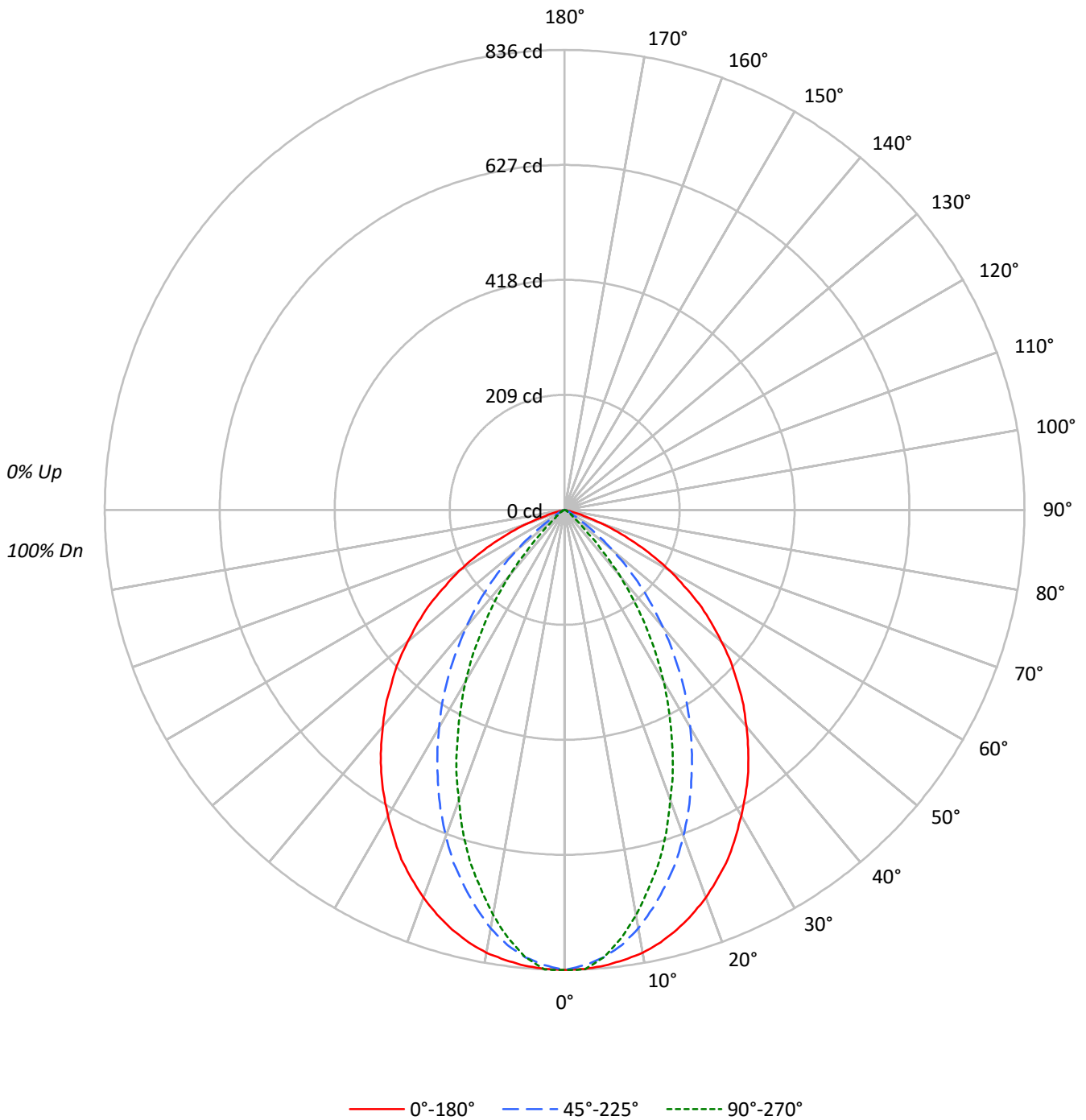
Lumens per Lamp: N/A
Luminaire Lumens: 1080.4 lumens
Efficiency: N/A
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5758	5758	5758
5°	5750	5643	5643
10°	5716	5400	5230
15°	5631	5041	4727
20°	5498	4624	4115
25°	5331	4140	3504
30°	5105	3632	2860
35°	4888	3097	2143
40°	4621	2499	1389
45°	4329	1891	602
50°	3983	1205	225
55°	3589	529	158
60°	3039	227	106
65°	2300	143	54
70°	1399	66	22
75°	293	29	29
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4329 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	7.1
10°-20°	201.0	18.6
20°-30°	258.0	23.9
30°-40°	242.9	22.5
40°-50°	169.8	15.7
50°-60°	90.7	8.4
60°-70°	36.2	3.3
70°-80°	4.7	0.4
80°-90°	0.0	0.0
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°	536.1	49.6
0°-40°	779.0	72.1
0°-60°	1039.5	96.2
0°-90°	1080.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	832	830	816	819	816	79
15°	790	765	707	674	663	222
25°	702	640	545	486	461	322
35°	582	489	368	285	255	363
45°	445	333	194	94	62	343
55°	299	183	44	15	13	265
65°	141	56	9	4	3	140
75°	11	3	1	1	1	21
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.3	836.3	836.3	836.3	836.3
2.5°	835.2	836.3	828.6	835.2	836.3
5°	831.9	829.7	816.5	818.7	816.5
7.5°	825.3	819.8	797.7	790.0	785.6
10°	817.6	805.4	772.3	755.8	748.1
12.5°	805.4	787.8	741.4	716.1	705.0
15°	790.0	764.6	707.2	674.1	663.1
17.5°	771.2	738.1	671.9	631.1	614.6
20°	750.3	706.1	631.1	582.6	561.6
22.5°	726.0	675.2	589.2	535.1	514.1
25°	701.7	639.9	545.0	485.5	461.2
27.5°	671.9	603.5	500.9	436.9	410.4
30°	642.1	567.1	456.8	387.3	359.7
32.5°	612.3	528.5	412.6	335.4	307.8
35°	581.5	488.8	368.5	284.7	254.9
37.5°	548.4	449.1	321.1	236.1	205.2
40°	514.1	410.4	278.0	188.7	154.5
42.5°	481.0	371.8	235.0	142.3	104.8
45°	444.6	333.2	194.2	93.8	61.8
47.5°	410.4	295.7	152.3	54.1	32.0
50°	371.8	257.1	112.5	28.7	21.0
52.5°	335.4	219.6	75.0	18.8	16.5
55°	299.0	183.2	44.1	15.4	13.2
57.5°	257.1	147.8	24.3	12.1	9.9
60°	220.7	115.8	16.5	8.8	7.7
62.5°	178.7	85.0	12.1	6.6	5.5
65°	141.2	56.3	8.8	4.4	3.3
67.5°	104.8	33.1	5.5	2.2	2.2
70°	69.5	17.7	3.3	1.1	1.1
72.5°	36.4	7.7	2.2	1.1	1.1
75°	11.0	3.3	1.1	1.1	1.1
77.5°	0.0	1.1	0.0	0.0	1.1
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)