

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: P1056433

Luminaire Tested: S125R3DR-S375D940-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S375D940-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

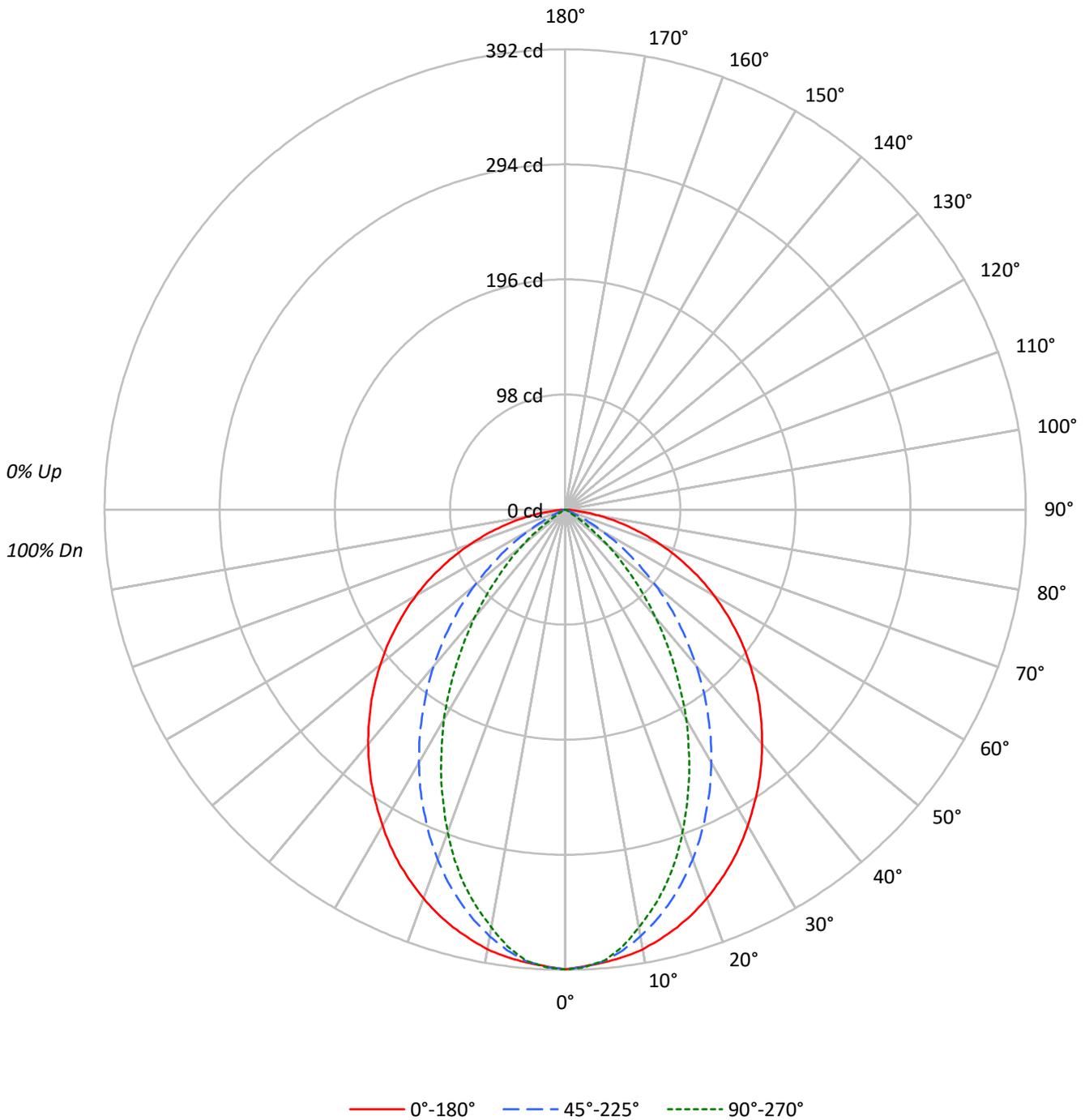
Lumens per Lamp: N/A
Luminaire Lumens: 634.8 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2768	2768	2768
5°	2746	2738	2735
10°	2731	2650	2594
15°	2695	2531	2423
20°	2651	2386	2199
25°	2601	2216	1950
30°	2538	2031	1686
35°	2475	1825	1394
40°	2407	1605	1103
45°	2336	1370	800
50°	2258	1105	517
55°	2172	809	229
60°	2068	499	66
65°	1940	182	38
70°	1757	64	17
75°	1527	22	11
80°	1168	16	0
85°	535	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2336 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	5.7
10°-20°	97.7	15.4
20°-30°	132.1	20.8
30°-40°	135.7	21.4
40°-50°	112.5	17.7
50°-60°	72.2	11.4
60°-70°	34.9	5.5
70°-80°	11.8	1.9
80°-90°	1.5	0.2
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°	266.2	41.9
0°-40°	401.9	63.3
0°-60°	586.6	92.4
0°-90°	634.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	387	390	386	384	385	37
15°	368	364	346	334	331	104
25°	333	317	284	258	250	153
35°	287	259	212	175	162	179
45°	234	195	137	95	80	180
55°	176	129	66	29	19	158
65°	116	64	11	3	2	115
75°	56	12	1	0	0	59
85°	7	0	0	0	0	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.6	391.6	391.6	391.6	391.6
2.5°	389.3	392.4	389.7	389.3	390.1
5°	387.0	390.1	385.8	383.5	385.4
7.5°	384.2	385.8	378.4	374.5	375.3
10°	380.4	380.0	369.1	362.5	361.3
12.5°	374.5	372.6	358.2	348.9	347.0
15°	368.3	363.7	345.8	333.8	331.1
17.5°	361.0	353.6	332.2	316.7	312.8
20°	352.4	342.3	317.1	298.1	292.3
22.5°	343.1	330.3	301.2	278.7	270.9
25°	333.4	317.1	284.1	258.5	250.0
27.5°	322.5	303.5	267.0	237.9	227.4
30°	310.9	289.2	248.8	217.0	206.5
32.5°	298.9	274.8	230.5	196.0	183.2
35°	286.8	259.3	211.5	174.7	161.5
37.5°	274.0	243.7	192.9	154.5	140.1
40°	260.8	227.8	173.9	133.5	119.5
42.5°	247.2	211.5	154.9	113.7	99.4
45°	233.7	195.2	137.0	94.7	80.0
47.5°	219.7	178.5	118.4	76.1	63.3
50°	205.3	162.2	100.5	59.4	47.0
52.5°	191.0	145.5	82.3	43.1	31.8
55°	176.2	129.2	65.6	28.7	18.6
57.5°	161.5	112.6	50.1	15.9	7.0
60°	146.3	96.6	35.3	5.4	4.7
62.5°	131.6	79.6	22.1	4.3	3.5
65°	116.0	64.0	10.9	3.1	2.3
67.5°	100.9	49.3	4.7	1.9	1.2
70°	85.0	35.7	3.1	1.2	0.8
72.5°	70.3	22.9	1.9	0.8	0.4
75°	55.9	12.0	0.8	0.4	0.4
77.5°	41.9	5.0	0.4	0.4	0.4
80°	28.7	2.3	0.4	0.4	0.0
82.5°	17.1	0.8	0.4	0.4	0.0
85°	6.6	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)