

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: P1056359

Luminaire Tested: S125R3DR-S1090D830-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1090D830-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

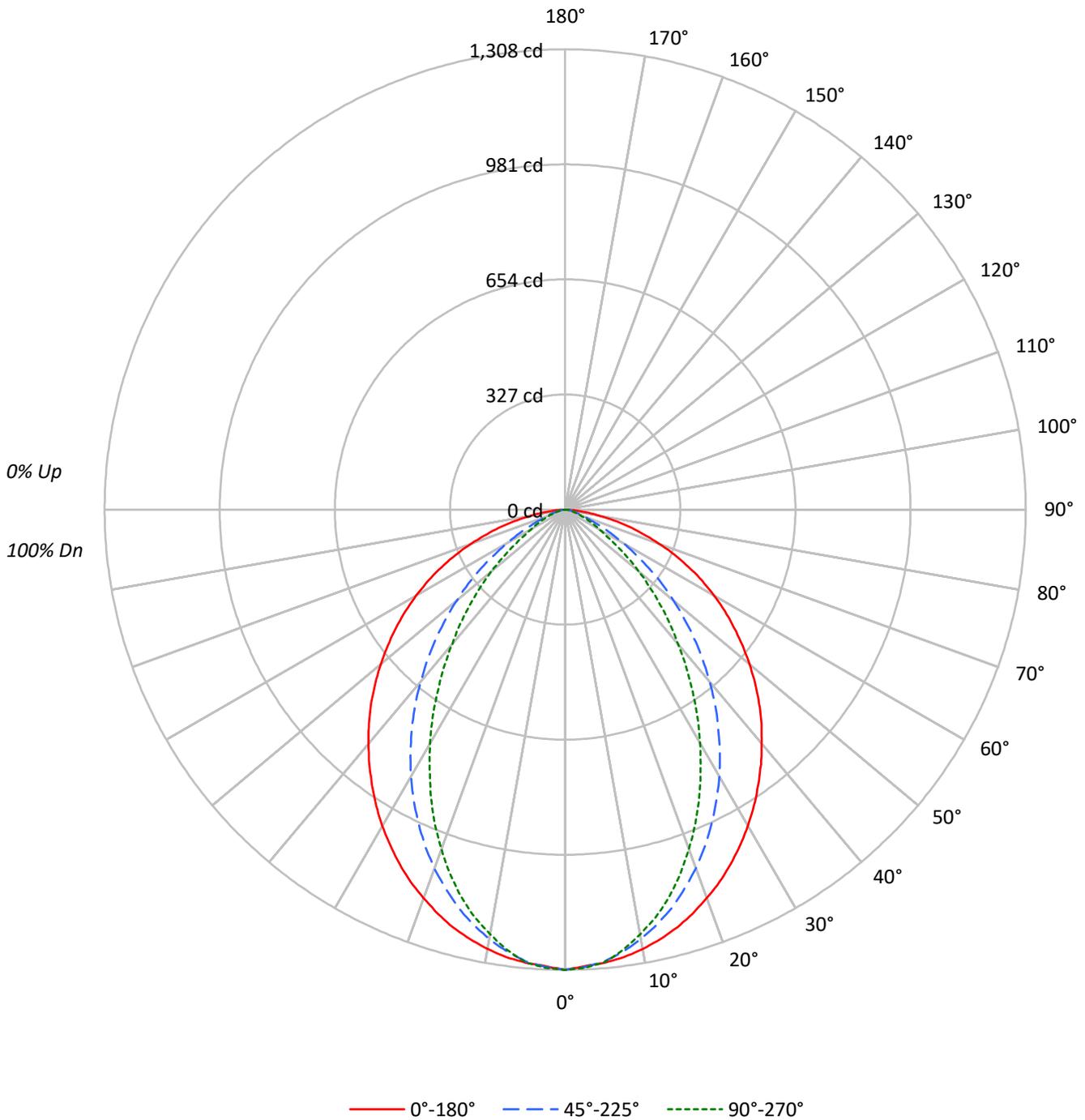
Lumens per Lamp: N/A
Luminaire Lumens: 2364.4 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9247	9247	9247
5°	9171	9145	9163
10°	9104	8895	8799
15°	8998	8572	8342
20°	8839	8165	7727
25°	8673	7681	7029
30°	8473	7148	6259
35°	8248	6543	5446
40°	8015	5879	4605
45°	7786	5183	3814
50°	7513	4409	2997
55°	7225	3583	2179
60°	6901	2672	1558
65°	6484	1763	1216
70°	5858	1228	852
75°	5094	795	661
80°	3994	590	541
85°	2060	495	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7786 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	5.2
10°-20°	331.3	14.0
20°-30°	458.0	19.4
30°-40°	485.3	20.5
40°-50°	423.6	17.9
50°-60°	301.3	12.7
60°-70°	167.5	7.1
70°-80°	64.4	2.7
80°-90°	11.1	0.5
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°	911.1	38.5
0°-40°	1396.4	59.1
0°-60°	2121.3	89.7
0°-90°	2364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1292	1302	1289	1285	1291	123
15°	1229	1218	1171	1146	1140	346
25°	1112	1074	985	924	901	512
35°	956	890	758	666	631	598
45°	779	686	518	414	382	600
55°	586	470	291	201	177	524
65°	388	254	105	78	73	383
75°	186	73	29	24	24	198
85°	25	7	6	5	5	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.1	1308.1	1308.1	1308.1	1308.1
2.5°	1298.4	1311.8	1300.9	1302.1	1303.3
5°	1292.4	1302.1	1288.7	1285.1	1291.2
7.5°	1282.7	1290.0	1266.9	1258.5	1262.1
10°	1268.2	1270.6	1239.1	1227.0	1225.8
12.5°	1250.0	1246.4	1207.6	1188.2	1187.0
15°	1229.4	1218.5	1171.3	1145.8	1139.8
17.5°	1204.0	1187.0	1128.9	1096.2	1086.5
20°	1174.9	1151.9	1085.3	1042.9	1027.1
22.5°	1145.8	1114.3	1036.8	983.5	966.6
25°	1111.9	1074.4	984.7	924.2	901.2
27.5°	1075.6	1030.8	931.4	861.2	833.3
30°	1038.0	985.9	875.7	797.0	766.7
32.5°	998.1	938.7	817.6	731.6	700.1
35°	955.7	890.3	758.2	666.2	631.0
37.5°	913.3	840.6	700.1	602.0	565.6
40°	868.5	789.7	637.1	536.6	499.0
42.5°	824.8	737.6	577.8	474.8	440.9
45°	778.8	685.6	518.4	414.2	381.5
47.5°	731.6	631.0	459.1	357.3	324.6
50°	683.1	577.8	400.9	301.6	272.5
52.5°	634.7	524.5	346.4	248.3	222.9
55°	586.2	470.0	290.7	201.1	176.8
57.5°	537.8	416.7	238.6	157.5	135.7
60°	488.1	362.2	189.0	116.3	110.2
62.5°	438.5	308.9	146.6	95.7	90.8
65°	387.6	254.4	105.4	77.5	72.7
67.5°	336.7	204.7	76.3	59.4	55.7
70°	283.4	156.2	59.4	44.8	41.2
72.5°	232.6	112.6	42.4	32.7	31.5
75°	186.5	72.7	29.1	24.2	24.2
77.5°	140.5	43.6	20.6	18.2	18.2
80°	98.1	25.4	14.5	13.3	13.3
82.5°	59.4	13.3	9.7	8.5	8.5
85°	25.4	7.3	6.1	4.8	4.8
87.5°	4.8	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)