

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: P1056400

Luminaire Tested: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056400
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-S1270D930-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

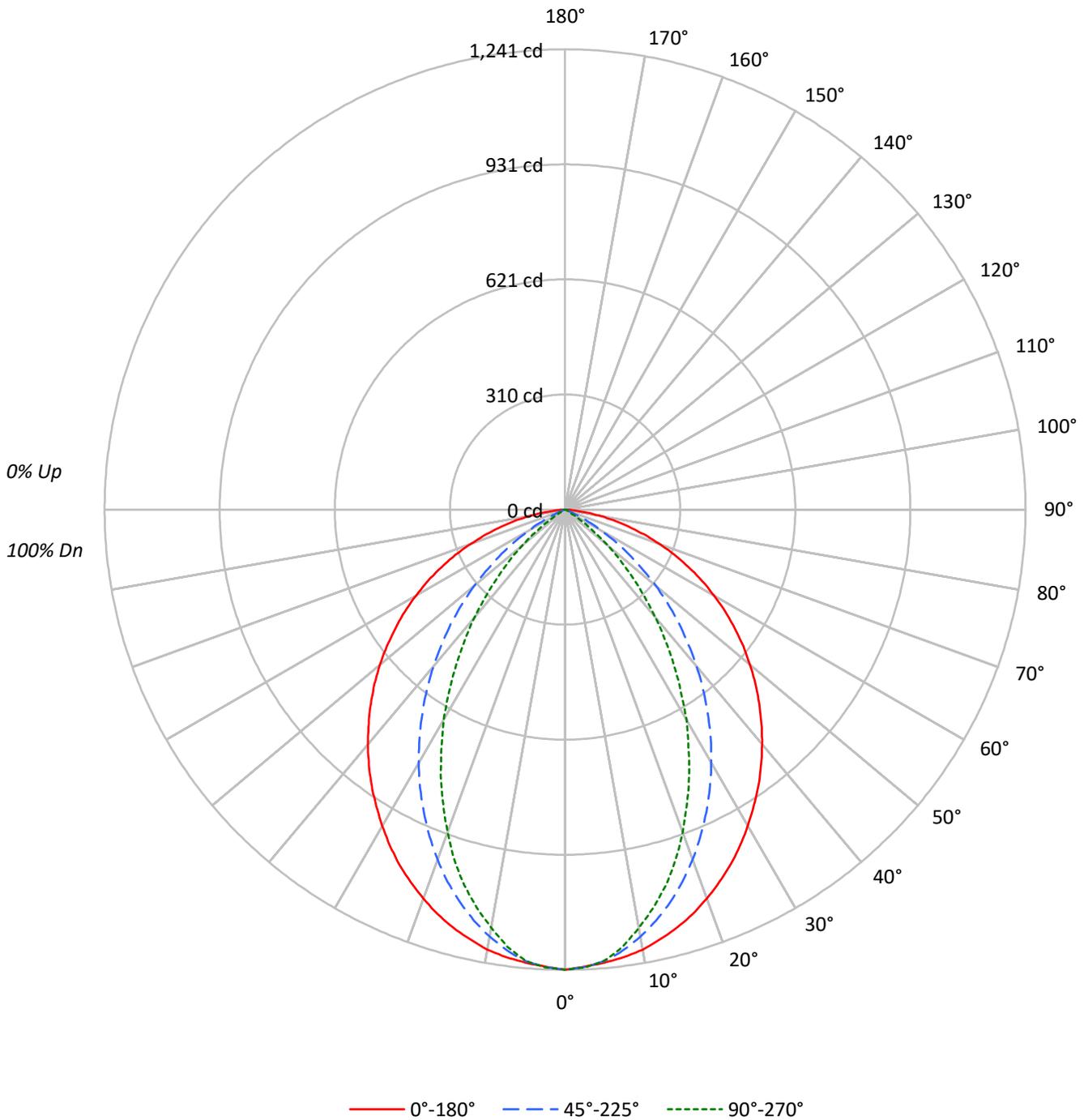
Lumens per Lamp: N/A
Luminaire Lumens: 2010.9 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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: P1056400

CATALOG NUMBER: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-B

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8771	8771	8771
5°	8699	8673	8665
10°	8650	8394	8218
15°	8540	8018	7676
20°	8399	7558	6966
25°	8239	7021	6177
30°	8040	6434	5339
35°	7842	5783	4414
40°	7625	5084	3495
45°	7400	4339	2532
50°	7154	3503	1636
55°	6880	2561	727
60°	6555	1582	209
65°	6149	575	124
70°	5566	203	52
75°	4837	68	33
80°	3705	49	0
85°	1695	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	5.7
10°-20°	309.4	15.4
20°-30°	418.6	20.8
30°-40°	430.0	21.4
40°-50°	356.3	17.7
50°-60°	228.7	11.4
60°-70°	110.5	5.5
70°-80°	37.4	1.9
80°-90°	4.8	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°	843.3	41.9
0°-40°	1273.3	63.3
0°-60°	1858.3	92.4
0°-90°	2010.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1226	1236	1222	1215	1221	116
15°	1167	1152	1096	1058	1049	329
25°	1056	1005	900	819	792	486
35°	909	821	670	553	512	568
45°	740	618	434	300	253	571
55°	558	410	208	91	59	499
65°	368	203	34	10	7	364
75°	177	38	2	1	1	188
85°	21	0	0	0	0	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.7	1240.7	1240.7	1240.7	1240.7
2.5°	1233.3	1243.1	1234.5	1233.3	1235.7
5°	1225.9	1235.7	1222.2	1214.8	1221.0
7.5°	1217.3	1222.2	1198.9	1186.6	1189.0
10°	1205.0	1203.8	1169.3	1148.4	1144.8
12.5°	1186.6	1180.4	1134.9	1105.4	1099.3
15°	1166.9	1152.1	1095.6	1057.5	1048.8
17.5°	1143.5	1120.2	1052.5	1003.4	991.1
20°	1116.5	1084.5	1004.6	944.3	925.9
22.5°	1087.0	1046.4	954.2	882.9	858.3
25°	1056.2	1004.6	900.1	818.9	791.9
27.5°	1021.8	961.5	846.0	753.7	720.5
30°	984.9	916.0	788.2	687.3	654.1
32.5°	946.8	870.6	730.4	620.9	580.4
35°	908.7	821.4	670.1	553.3	511.5
37.5°	868.1	772.2	611.1	489.4	443.9
40°	826.3	721.8	550.9	423.0	378.7
42.5°	783.3	670.1	490.6	360.3	314.8
45°	740.2	618.5	434.0	300.0	253.3
47.5°	696.0	565.6	375.0	241.0	200.4
50°	650.5	514.0	318.5	188.1	148.8
52.5°	605.0	461.1	260.7	136.5	100.8
55°	558.2	409.5	207.8	91.0	59.0
57.5°	511.5	356.6	158.6	50.4	22.1
60°	463.6	306.2	111.9	17.2	14.8
62.5°	416.8	252.1	70.1	13.5	11.1
65°	367.6	202.9	34.4	9.8	7.4
67.5°	319.7	156.2	14.8	6.1	3.7
70°	269.3	113.1	9.8	3.7	2.5
72.5°	222.6	72.5	6.1	2.5	1.2
75°	177.1	38.1	2.5	1.2	1.2
77.5°	132.8	16.0	1.2	1.2	1.2
80°	91.0	7.4	1.2	1.2	0.0
82.5°	54.1	2.5	1.2	1.2	0.0
85°	20.9	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)