

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: P1056362

Luminaire Tested: S125R3DR-S1090D835-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056362
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-S1090D835-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

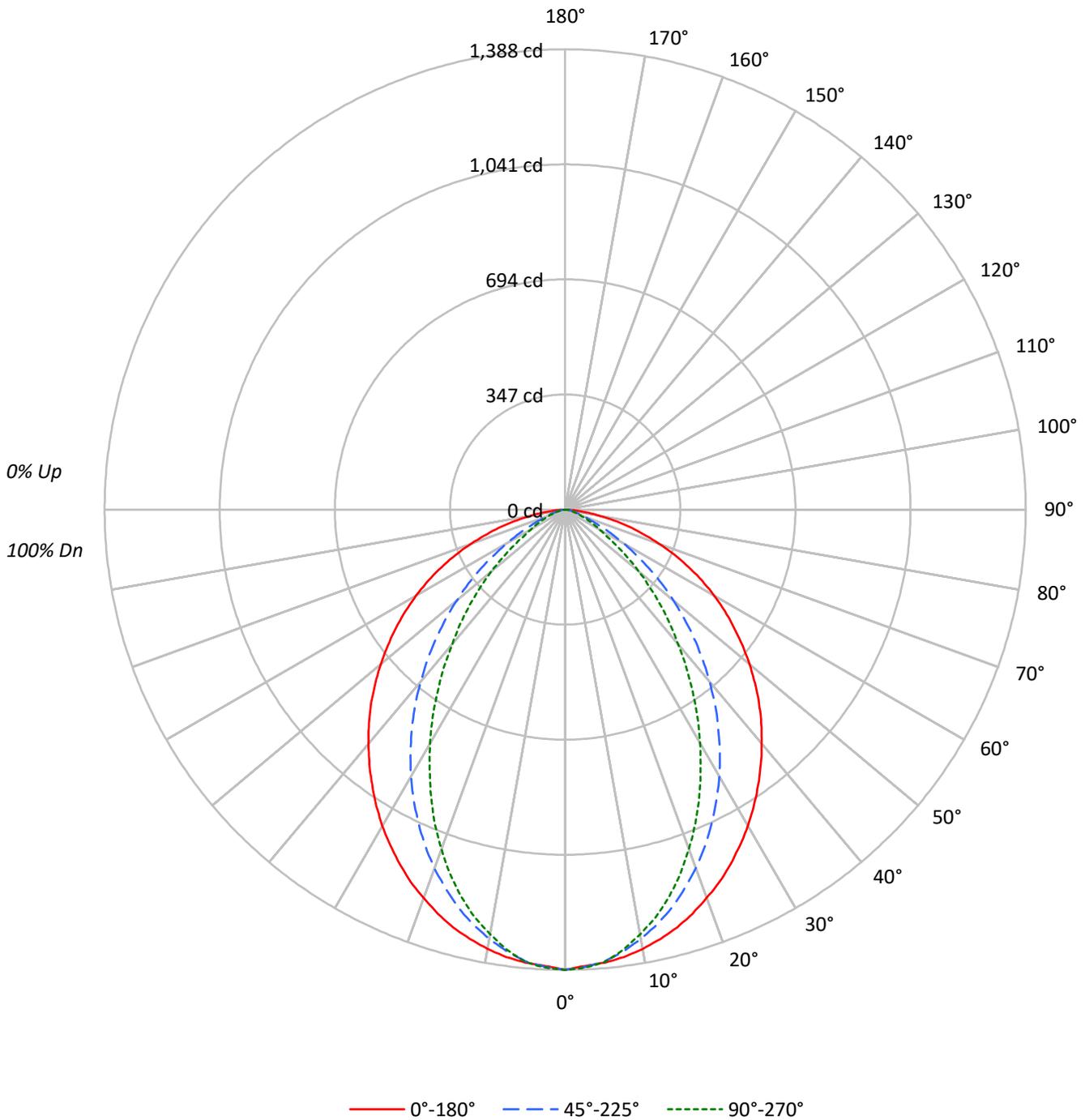
Lumens per Lamp: N/A
Luminaire Lumens: 2508.5 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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°	9812	9812	9812
5°	9731	9703	9721
10°	9659	9437	9336
15°	9546	9095	8850
20°	9377	8662	8198
25°	9202	8150	7458
30°	8990	7584	6640
35°	8750	6943	5778
40°	8503	6237	4885
45°	8261	5499	4047
50°	7971	4679	3180
55°	7666	3801	2312
60°	7322	2835	1653
65°	6878	1870	1290
70°	6215	1302	903
75°	5405	841	702
80°	4238	627	574
85°	2190	519	414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8261 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	5.2
10°-20°	351.4	14.0
20°-30°	486.0	19.4
30°-40°	514.9	20.5
40°-50°	449.4	17.9
50°-60°	319.6	12.7
60°-70°	177.7	7.1
70°-80°	68.3	2.7
80°-90°	11.8	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°	966.7	38.5
0°-40°	1481.5	59.1
0°-60°	2250.6	89.7
0°-90°	2508.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1371	1381	1367	1364	1370	130
15°	1304	1293	1243	1216	1209	367
25°	1180	1140	1045	980	956	543
35°	1014	944	804	707	670	634
45°	826	727	550	440	405	637
55°	622	499	308	213	188	556
65°	411	270	112	82	77	406
75°	198	77	31	26	26	210
85°	27	8	6	5	5	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.9	1387.9	1387.9	1387.9	1387.9
2.5°	1377.6	1391.7	1380.2	1381.4	1382.7
5°	1371.2	1381.4	1367.3	1363.5	1369.9
7.5°	1360.9	1368.6	1344.2	1335.2	1339.0
10°	1345.5	1348.0	1314.6	1301.8	1300.5
12.5°	1326.2	1322.3	1281.2	1260.6	1259.4
15°	1304.3	1292.8	1242.7	1215.7	1209.2
17.5°	1277.4	1259.4	1197.7	1163.0	1152.7
20°	1246.5	1222.1	1151.4	1106.4	1089.7
22.5°	1215.7	1182.3	1100.0	1043.5	1025.5
25°	1179.7	1139.9	1044.8	980.5	956.1
27.5°	1141.1	1093.6	988.2	913.7	884.1
30°	1101.3	1046.0	929.1	845.6	813.4
32.5°	1058.9	995.9	867.4	776.2	742.8
35°	1013.9	944.5	804.5	706.8	669.5
37.5°	968.9	891.8	742.8	638.7	600.1
40°	921.4	837.9	675.9	569.3	529.4
42.5°	875.1	782.6	613.0	503.7	467.8
45°	826.3	727.3	550.0	439.5	404.8
47.5°	776.2	669.5	487.0	379.1	344.4
50°	724.8	613.0	425.4	320.0	289.1
52.5°	673.4	556.4	367.5	263.4	236.5
55°	622.0	498.6	308.4	213.3	187.6
57.5°	570.6	442.1	253.2	167.1	143.9
60°	517.9	384.2	200.5	123.4	116.9
62.5°	465.2	327.7	155.5	101.5	96.4
65°	411.2	269.9	111.8	82.2	77.1
67.5°	357.2	217.2	81.0	63.0	59.1
70°	300.7	165.8	63.0	47.5	43.7
72.5°	246.7	119.5	45.0	34.7	33.4
75°	197.9	77.1	30.8	25.7	25.7
77.5°	149.1	46.3	21.8	19.3	19.3
80°	104.1	27.0	15.4	14.1	14.1
82.5°	63.0	14.1	10.3	9.0	9.0
85°	27.0	7.7	6.4	5.1	5.1
87.5°	5.1	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)