

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: P1056417

Luminaire Tested: S125R3DR-S375D835-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S375D835-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

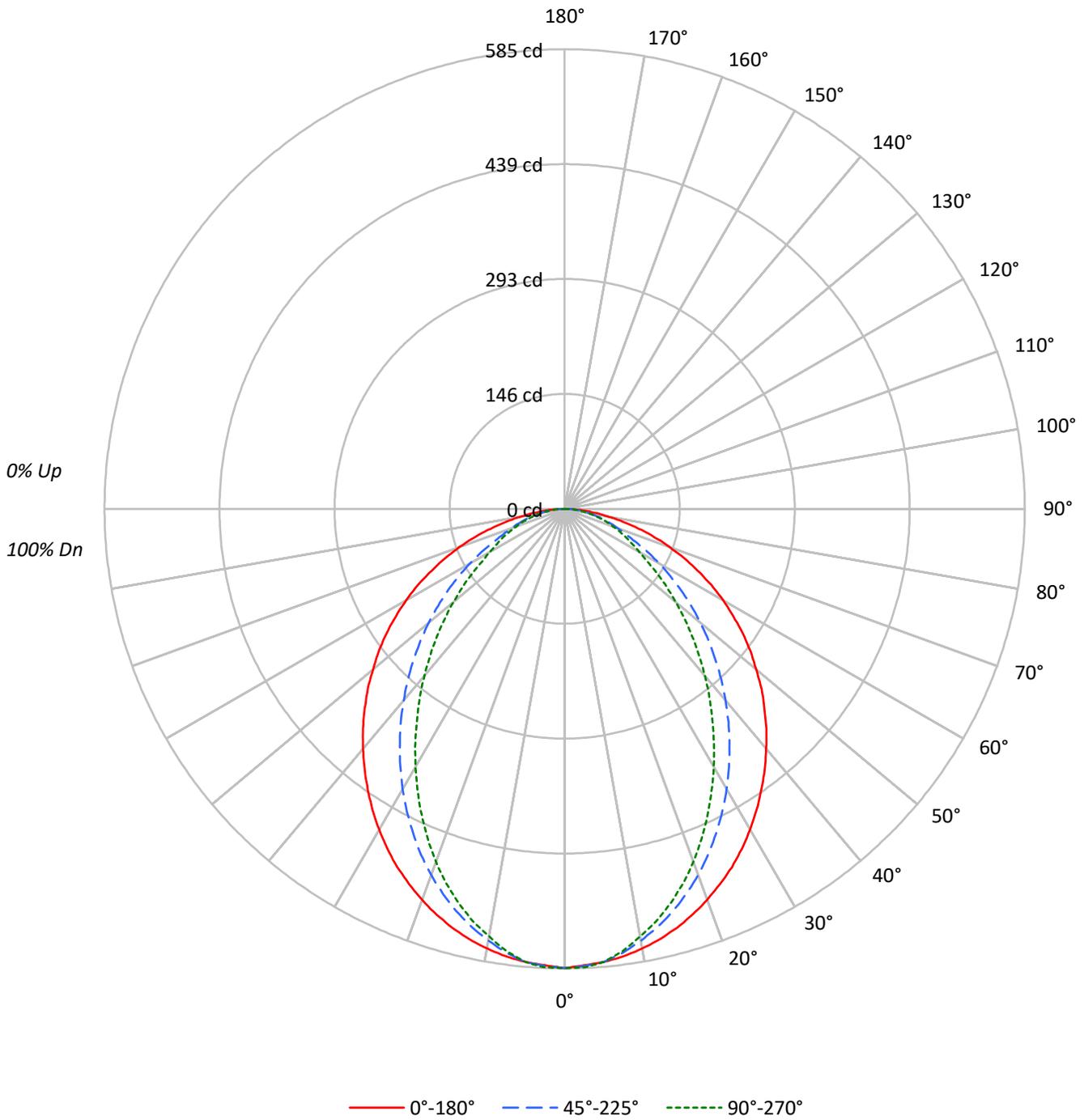
Lumens per Lamp: N/A
Luminaire Lumens: 1238.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1056417

CATALOG NUMBER: S125R3DR-S375D835-X4F0-XX-UDD-FLL-W

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4133	4133	4133
5°	4108	4105	4108
10°	4080	4006	3968
15°	4039	3883	3804
20°	3985	3733	3598
25°	3925	3555	3354
30°	3848	3362	3095
35°	3764	3152	2825
40°	3679	2936	2559
45°	3590	2711	2293
50°	3494	2480	2029
55°	3407	2226	1765
60°	3286	1957	1551
65°	3123	1659	1442
70°	2933	1484	1350
75°	2652	1368	1273
80°	2304	1242	1189
85°	1801	1095	1095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	4.4
10°-20°	150.2	12.1
20°-30°	212.1	17.1
30°-40°	233.5	18.8
40°-50°	217.8	17.6
50°-60°	173.9	14.0
60°-70°	117.0	9.4
70°-80°	62.3	5.0
80°-90°	17.3	1.4
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°	417.0	33.7
0°-40°	650.5	52.5
0°-60°	1042.3	84.1
0°-90°	1238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	579	584	578	577	579	55
15°	552	549	531	521	520	156
25°	503	488	456	436	430	232
35°	436	410	365	336	327	273
45°	359	325	271	238	229	277
55°	276	235	181	152	143	247
65°	187	146	99	88	86	185
75°	97	64	50	47	47	103
85°	22	15	14	14	14	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.6	584.6	584.6	584.6	584.6
2.5°	581.5	586.3	582.4	583.2	584.1
5°	578.9	583.7	578.5	576.7	578.9
7.5°	574.5	578.5	569.8	565.8	567.6
10°	568.4	571.1	558.0	552.8	552.8
12.5°	561.0	561.0	545.4	538.0	538.0
15°	551.9	548.9	530.6	521.4	519.7
17.5°	541.5	535.8	514.0	502.3	500.1
20°	529.7	520.6	496.2	481.0	478.3
22.5°	516.7	504.9	476.6	457.9	454.8
25°	503.2	487.9	455.7	435.7	430.0
27.5°	487.9	469.6	434.4	411.8	404.8
30°	471.4	450.5	411.8	386.5	379.1
32.5°	454.4	430.9	388.7	361.7	353.4
35°	436.1	410.4	365.2	336.5	327.3
37.5°	417.8	390.0	342.1	312.1	302.5
40°	398.7	368.2	318.2	287.3	277.3
42.5°	379.5	346.9	294.7	263.3	252.9
45°	359.1	325.1	271.2	238.1	229.4
47.5°	339.5	302.9	248.1	215.9	206.3
50°	317.7	279.9	225.5	193.3	184.5
52.5°	297.7	257.2	202.8	172.8	163.7
55°	276.4	234.6	180.6	151.9	143.2
57.5°	254.2	212.0	159.3	132.3	124.0
60°	232.4	189.3	138.4	113.6	109.7
62.5°	210.2	168.0	118.8	99.7	97.1
65°	186.7	145.8	99.2	87.9	86.2
67.5°	164.5	124.5	83.6	77.0	75.3
70°	141.9	103.2	71.8	66.2	65.3
72.5°	119.7	82.7	60.5	56.6	55.7
75°	97.1	64.4	50.1	47.0	46.6
77.5°	76.2	48.3	39.6	38.3	37.4
80°	56.6	36.1	30.5	29.6	29.2
82.5°	38.7	24.8	21.8	21.8	20.9
85°	22.2	15.2	13.5	13.9	13.5
87.5°	8.3	6.5	6.1	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)