

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: P1004593

Luminaire Tested: S125DR-B375DB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1004593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DR-B375DB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

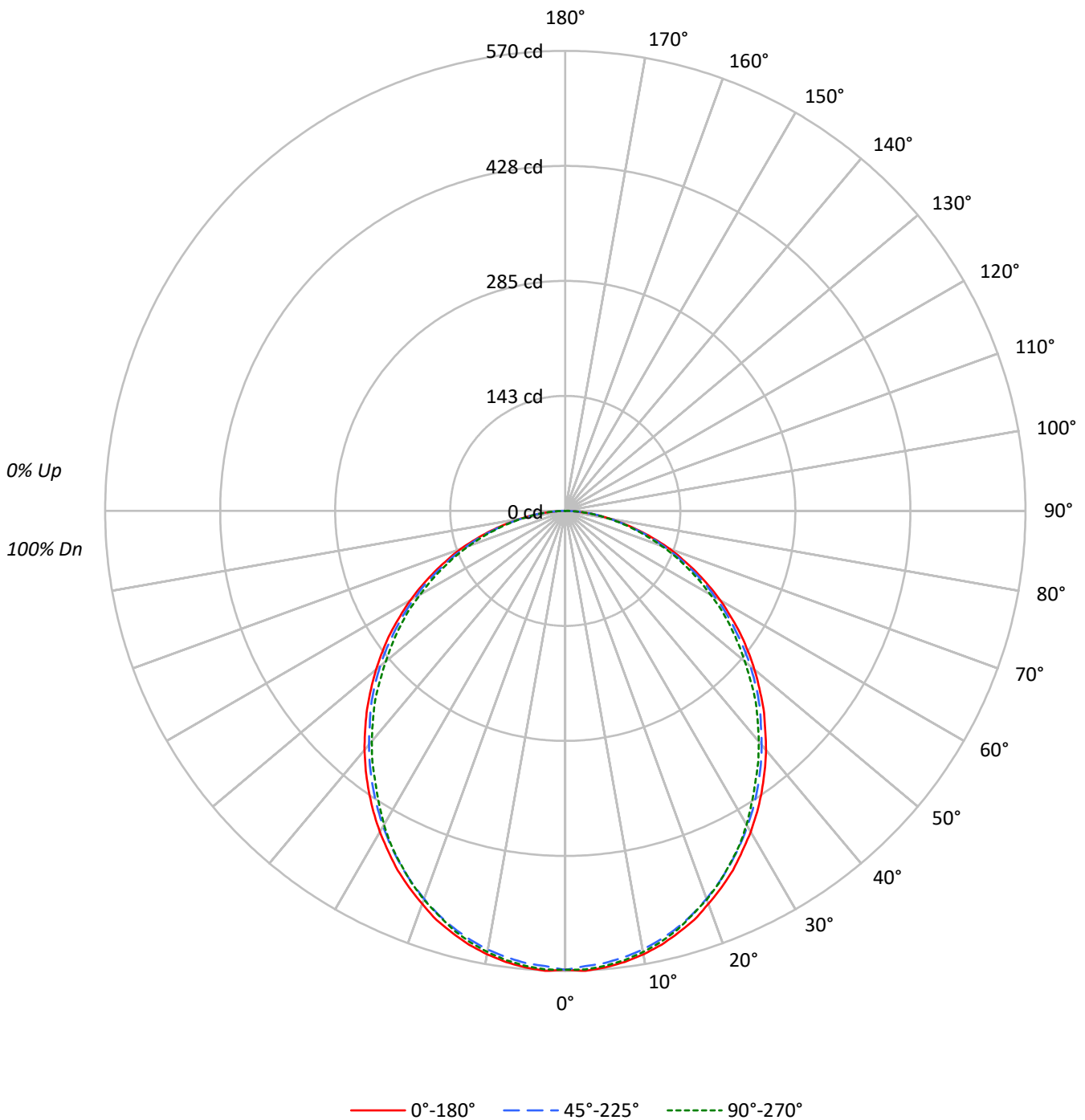
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1480.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V):
Input Current (A_{in}): 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: P1004593
CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-F_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P1004593
 CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-F_3000K

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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	72	72	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3643	3643	3643
5°	3651	3616	3640
10°	3629	3591	3611
15°	3590	3548	3563
20°	3533	3488	3494
25°	3473	3416	3412
30°	3398	3338	3322
35°	3318	3255	3209
40°	3236	3164	3119
45°	3147	3082	3020
50°	3049	2982	2893
55°	2955	2870	2789
60°	2842	2755	2658
65°	2708	2618	2530
70°	2580	2462	2377
75°	2349	2273	2193
80°	2092	2059	2007
85°	1816	1853	1750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3147 cd/sqm



TEST NUMBER: P1004593

CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	3.6
10°-20°	151.6	10.2
20°-30°	223.8	15.1
30°-40°	261.1	17.6
40°-50°	262.2	17.7
50°-60°	230.2	15.6
60°-70°	171.4	11.6
70°-80°	97.9	6.6
80°-90°	28.3	1.9
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°	429.0	29.0
0°-40°	690.0	46.6
0°-60°	1182.4	79.9
0°-90°	1480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	567	562	566	566	54
15°	541	540	535	537	537	153
25°	491	489	483	484	483	226
35°	424	422	416	414	410	265
45°	347	346	340	335	333	268
55°	264	263	257	253	250	236
65°	179	178	173	169	167	177
75°	95	94	92	90	89	101
85°	25	25	25	25	24	29
90°	0	0	0	0	0	



TEST NUMBER: P1004593
 CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.6	568.6	568.6	568.6	568.6
2.5°	570.4	569.1	564.6	569.1	568.6
5°	567.7	566.8	562.3	566.4	565.9
7.5°	563.7	562.8	557.8	561.9	561.4
10°	557.8	556.9	552.0	555.6	555.1
12.5°	550.6	548.8	544.3	547.0	547.0
15°	541.2	539.8	534.9	537.1	537.1
17.5°	531.3	529.0	524.1	526.8	524.5
20°	518.2	517.3	511.5	514.6	512.4
22.5°	505.2	503.4	498.0	499.8	498.4
25°	491.3	489.0	483.2	484.1	482.7
27.5°	475.1	473.7	467.9	468.3	467.0
30°	459.3	458.0	451.2	450.3	449.0
32.5°	442.2	440.0	434.1	432.3	429.6
35°	424.2	422.4	416.1	413.9	410.3
37.5°	405.8	403.5	397.7	394.5	392.3
40°	386.9	384.6	378.3	374.3	372.9
42.5°	366.6	364.8	358.5	354.9	352.7
45°	347.3	345.5	340.1	334.7	333.3
47.5°	326.2	326.6	319.9	314.5	311.3
50°	305.9	304.6	299.2	293.3	290.2
52.5°	285.2	284.3	278.5	273.5	269.9
55°	264.5	263.2	256.9	252.8	249.7
57.5°	242.5	242.0	236.6	231.2	229.9
60°	221.8	220.0	215.0	210.5	207.4
62.5°	200.2	198.8	194.8	189.8	187.6
65°	178.6	177.7	172.7	168.7	166.9
67.5°	157.5	155.7	152.1	148.5	147.6
70°	137.7	135.4	131.4	128.7	126.9
72.5°	116.1	114.7	112.5	109.3	107.5
75°	94.9	94.0	91.8	90.4	88.6
77.5°	75.1	74.7	73.3	72.4	71.1
80°	56.7	56.7	55.8	55.3	54.4
82.5°	40.5	39.6	39.6	38.7	38.7
85°	24.7	25.2	25.2	24.7	23.8
87.5°	12.1	12.1	11.7	11.7	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)