

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: P1004596

Luminaire Tested: S125DR-B375DB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1004596
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_5000K
Description: Define 5 Direct Recessed with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

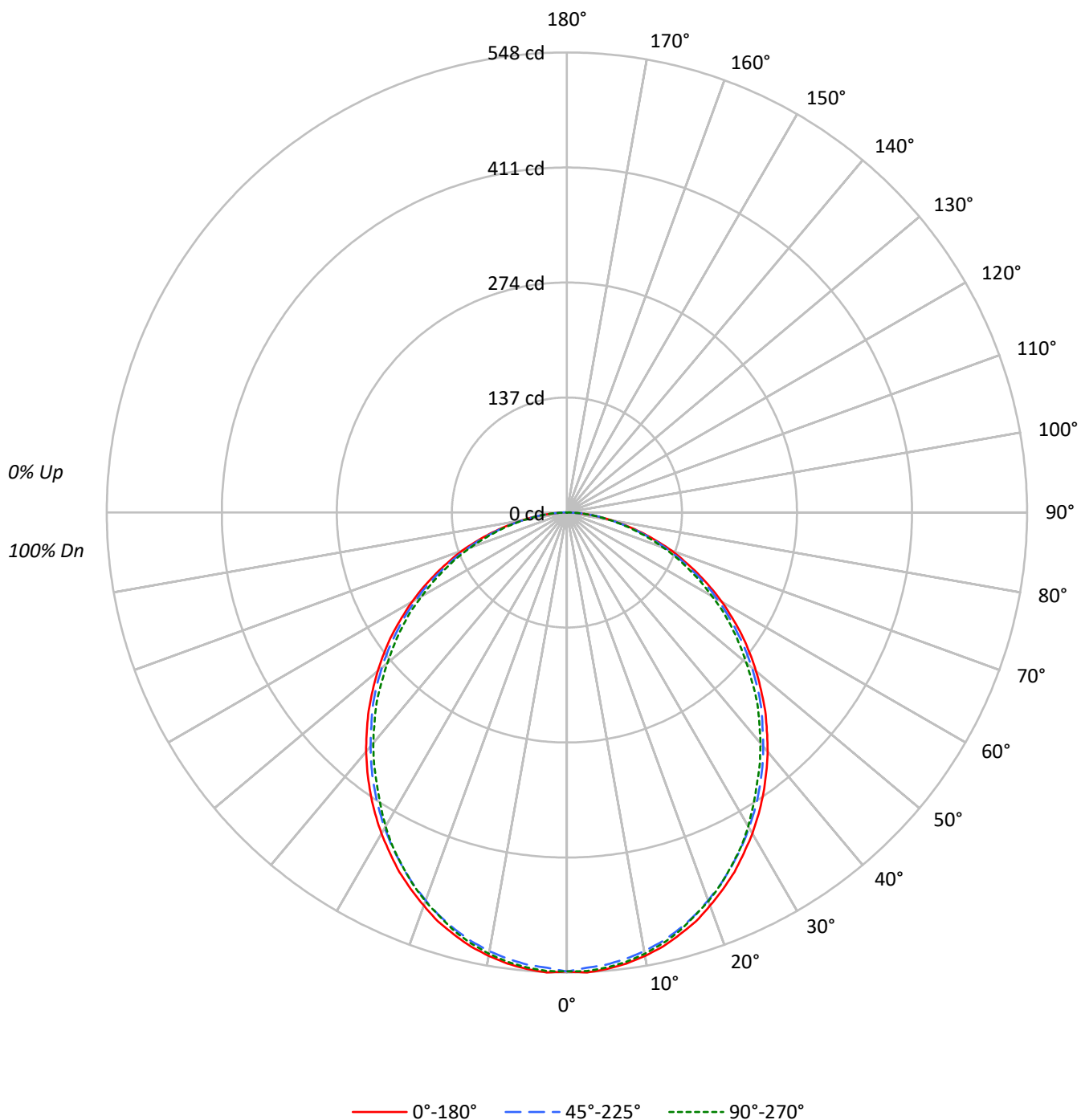
Lumens per Lamp: N/A
Luminaire Lumens: 1423.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V):
Input Current (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				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	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86		84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72		70
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62		59
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53		51
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57	51	46		44
6	71	57	49	42	69	56	48	42	55	47	42		53	46	41		51	46	41		39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36		34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33		31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	30		28
10	54	40	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3511	3478	3499
10°	3489	3453	3473
15°	3451	3411	3426
20°	3398	3353	3359
25°	3339	3284	3281
30°	3267	3209	3194
35°	3190	3129	3086
40°	3111	3043	2999
45°	3025	2963	2904
50°	2931	2867	2781
55°	2841	2759	2682
60°	2732	2650	2555
65°	2603	2518	2433
70°	2480	2366	2285
75°	2260	2183	2109
80°	2011	1978	1930
85°	1750	1779	1683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3025 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.6
10°-20°	145.7	10.2
20°-30°	215.1	15.1
30°-40°	251.0	17.6
40°-50°	252.1	17.7
50°-60°	221.3	15.6
60°-70°	164.8	11.6
70°-80°	94.1	6.6
80°-90°	27.2	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°	412.5	29.0
0°-40°	663.5	46.6
0°-60°	1136.8	79.9
0°-90°	1423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)