

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: P1007172

Luminaire Tested: S125RDR-B375DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-B375DB30-4F0-XX-W2A-F
Description: Define 5 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

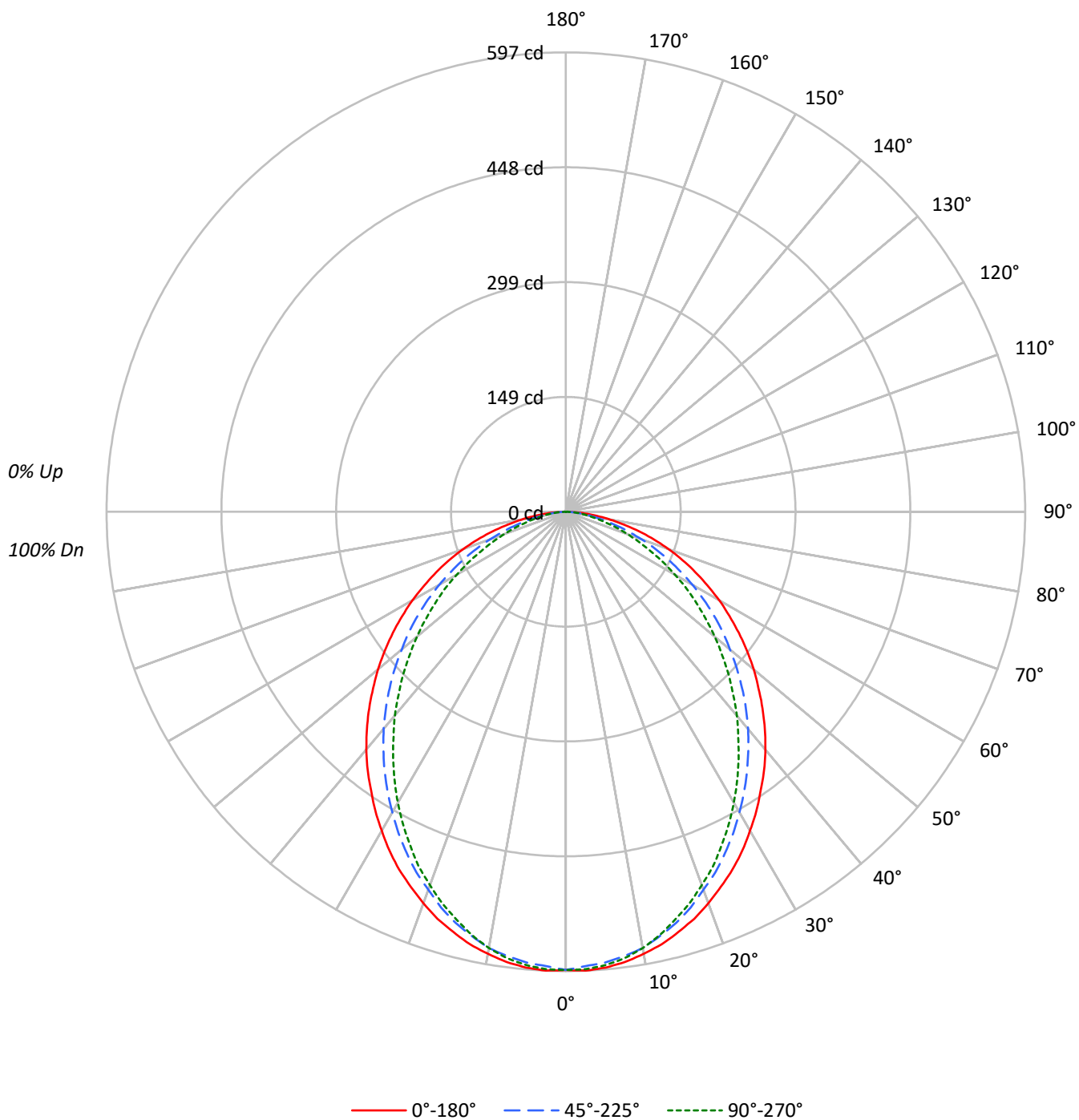
Lumens per Lamp: N/A
Luminaire Lumens: 1407.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	44		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	39		49
8	62	49	41	35	61	48	41	35	47	40	35		46	39	35		45
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41
10	55	42	34	29	54	41	34	29	40	34	29		39	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3824	3781	3804
10°	3796	3745	3745
15°	3750	3669	3640
20°	3692	3564	3521
25°	3625	3460	3383
30°	3541	3337	3231
35°	3455	3212	3061
40°	3375	3081	2893
45°	3276	2934	2710
50°	3179	2775	2520
55°	3065	2623	2317
60°	2951	2439	2098
65°	2817	2223	1848
70°	2662	1956	1592
75°	2451	1649	1324
80°	2158	1295	1111
85°	1816	1059	992

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	4.0
10°-20°	156.6	11.1
20°-30°	227.1	16.1
30°-40°	258.7	18.4
40°-50°	252.2	17.9
50°-60°	212.2	15.1
60°-70°	148.7	10.6
70°-80°	76.3	5.4
80°-90°	19.0	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°	439.8	31.3
0°-40°	698.5	49.6
0°-60°	1163.0	82.7
0°-90°	1407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	593	588	592	592	56
15°	565	563	553	553	549	159
25°	513	506	489	484	479	236
35°	442	431	411	398	391	277
45°	362	349	324	306	299	279
55°	274	260	235	214	207	245
65°	186	170	147	129	122	184
75°	99	86	67	57	54	105
85°	25	17	14	14	14	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.5	595.5	595.5	595.5	595.5
2.5°	596.9	595.5	591.0	595.5	595.1
5°	594.6	592.8	587.9	592.4	591.5
7.5°	590.1	588.3	582.5	586.1	585.2
10°	583.4	582.0	575.7	577.1	575.7
12.5°	575.7	573.9	564.9	565.8	563.6
15°	565.4	562.7	553.2	552.8	548.7
17.5°	554.6	550.5	539.3	537.0	533.9
20°	541.5	537.0	522.7	520.4	516.4
22.5°	527.2	522.7	507.4	502.4	499.3
25°	512.8	506.0	489.4	483.5	478.6
27.5°	496.6	488.5	470.9	463.3	458.3
30°	478.6	470.0	451.1	440.8	436.7
32.5°	461.0	450.7	431.3	419.7	414.3
35°	441.7	430.9	410.7	397.6	391.3
37.5°	423.3	410.2	389.5	374.2	367.9
40°	403.5	390.0	368.4	351.3	345.9
42.5°	382.8	368.8	346.3	330.1	321.6
45°	361.6	348.6	323.8	305.9	299.1
47.5°	339.6	326.1	301.4	282.9	275.3
50°	318.9	304.1	278.4	259.5	252.8
52.5°	296.4	281.1	257.3	236.6	229.8
55°	274.4	260.0	234.8	214.5	207.4
57.5°	251.9	236.6	212.3	192.5	186.2
60°	230.3	214.5	190.3	170.5	163.7
62.5°	207.4	192.5	167.8	149.8	143.0
65°	185.8	170.5	146.6	128.6	121.9
67.5°	164.2	148.9	125.9	108.8	103.5
70°	142.1	126.8	104.4	90.4	85.0
72.5°	120.5	105.7	85.0	72.4	69.3
75°	99.0	85.5	66.6	56.7	53.5
77.5°	76.9	66.1	50.4	42.7	40.0
80°	58.5	47.7	35.1	31.0	30.1
82.5°	40.5	31.0	23.4	22.0	21.6
85°	24.7	16.6	14.4	13.9	13.5
87.5°	10.3	7.2	6.7	6.7	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)