

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: P1035939

Luminaire Tested: S125RDIW-B375D470UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035939
REPORT IS A COMBINATION OF REPORTS P1006521 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D470UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

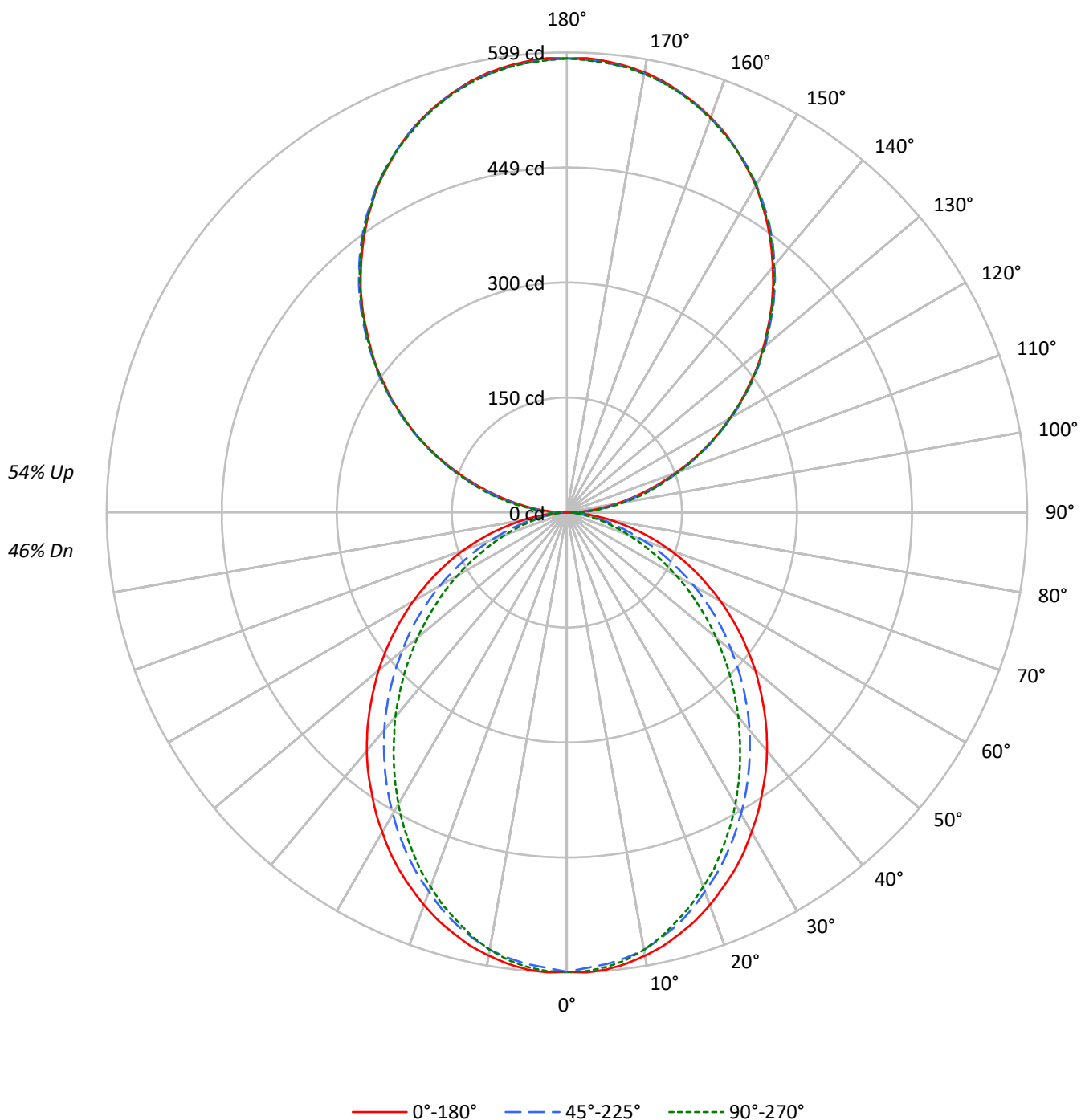
Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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	30	10
RCR																	
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53
1	97	93	89	86	89	85	82	79	71	69	67	59	57	56	47	46	45
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	40	38
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3832	3832	3832
5°	3833	3736	3742
10°	3795	3642	3610
15°	3741	3510	3436
20°	3675	3352	3254
25°	3598	3197	3058
30°	3505	3027	2853
35°	3410	2854	2635
40°	3319	2676	2422
45°	3211	2484	2198
50°	3100	2281	1971
55°	2971	2081	1736
60°	2841	1852	1492
65°	2685	1596	1228
70°	2501	1299	967
75°	2251	977	705
80°	1897	632	476
85°	1418	341	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.8
10°-20°	157.3	5.1
20°-30°	228.1	7.4
30°-40°	259.9	8.5
40°-50°	253.3	8.3
50°-60°	213.2	7.0
60°-70°	149.4	4.9
70°-80°	76.6	2.5
80°-90°	20.0	0.7
90°-100°	39.3	1.3
100°-110°	116.8	3.8
110°-120°	198.1	6.5
120°-130°	260.8	8.5
130°-140°	292.2	9.5
140°-150°	286.4	9.3
150°-160°	240.6	7.9
160°-170°	159.9	5.2
170°-180°	56.0	1.8
0°-30°	441.7	14.4
0°-40°	701.5	22.9
0°-60°	1168.0	38.1
0°-90°	1414.0	46.1
90°-120°	354.2	11.6
90°-150°	1193.6	39.0
90°-180°	1650.0	53.9
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	597	595	590	595	594	57
15°	568	565	556	555	551	160
25°	515	508	492	486	481	237
35°	444	433	412	399	393	278
45°	363	350	325	307	300	280
55°	276	261	236	216	208	246
65°	187	171	147	129	122	185
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	0	4	7	10	11	3
95°	30	31	35	39	40	31
105°	105	107	110	113	114	112
115°	198	200	201	201	200	196
125°	289	292	293	292	291	259
135°	376	379	380	380	378	290
145°	456	458	459	459	458	285
155°	522	522	522	524	522	240
165°	567	566	567	569	566	160
175°	590	588	588	591	588	56
180°	591	591	591	591	591	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.1	598.1	598.1	598.1	598.1
2.5°	599.4	598.1	593.5	598.1	597.6
5°	597.2	595.3	590.4	594.9	594.0
7.5°	592.6	590.8	585.0	588.6	587.7
10°	585.9	584.5	578.2	579.5	578.2
12.5°	578.2	576.4	567.3	568.2	566.0
15°	567.8	565.1	555.6	555.1	551.1
17.5°	557.0	552.9	541.6	539.3	536.2
20°	543.9	539.3	524.9	522.6	518.6
22.5°	529.4	524.9	509.5	504.6	501.4
25°	514.9	508.2	491.5	485.6	480.6
27.5°	498.7	490.6	472.9	465.3	460.3
30°	480.6	472.0	453.1	442.7	438.6
32.5°	463.0	452.6	433.2	421.4	416.0
35°	443.6	432.7	412.4	399.3	393.0
37.5°	425.1	412.0	391.2	375.8	369.5
40°	405.2	391.6	369.9	352.8	347.4
42.5°	384.4	370.4	347.8	331.6	323.0
45°	363.2	350.1	325.2	307.2	300.4
47.5°	341.0	327.5	302.6	284.1	276.4
50°	320.3	305.4	279.6	260.6	253.9
52.5°	297.7	282.3	258.4	237.6	230.8
55°	275.5	261.1	235.8	215.5	208.2
57.5°	253.0	237.6	213.2	193.3	187.0
60°	231.3	215.5	191.1	171.2	164.4
62.5°	208.2	193.3	168.5	150.4	143.6
65°	186.6	171.2	147.3	129.2	122.4
67.5°	164.9	149.5	126.5	109.3	103.9
70°	142.7	127.4	104.8	90.8	85.4
72.5°	121.1	106.2	85.4	72.7	69.6
75°	99.4	85.8	66.9	56.9	53.8
77.5°	77.2	66.4	50.6	42.9	40.2
80°	58.7	47.9	35.2	31.2	30.3
82.5°	40.7	31.2	23.5	22.1	21.7
85°	24.8	16.7	14.5	14.0	13.6
87.5°	10.4	7.2	6.8	6.8	6.3
90°	0.5	4.1	7.4	9.7	11.0
92.5°	13.8	16.1	20.2	23.5	24.4
95°	29.9	30.8	35.4	38.6	39.6
97.5°	46.0	46.5	52.9	55.7	56.1
100°	64.4	64.4	70.4	74.5	75.5
102.5°	84.2	86.5	88.8	93.4	94.8
105°	104.9	107.2	110.0	112.7	114.1
107.5°	127.4	129.7	132.0	133.4	133.4
110°	150.9	153.2	154.6	156.0	155.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	175.8	177.6	178.1	177.1
115°	198.3	200.1	201.1	200.6	200.1
117.5°	222.2	222.7	223.6	224.1	222.2
120°	244.3	246.6	247.1	247.1	245.2
122.5°	268.2	268.7	270.1	269.6	268.2
125°	289.4	292.2	292.6	291.7	291.2
127.5°	312.9	314.2	314.7	314.2	313.3
130°	333.6	335.9	336.8	336.3	335.4
132.5°	354.3	358.4	358.0	357.5	356.1
135°	376.4	379.1	379.6	379.6	377.7
137.5°	397.1	399.8	400.7	401.2	398.9
140°	416.9	419.2	420.5	421.5	419.2
142.5°	436.6	438.5	440.3	440.8	438.5
145°	456.0	457.8	459.2	459.2	457.8
147.5°	473.9	475.3	476.2	477.6	473.9
150°	491.8	491.4	493.2	493.2	492.3
152.5°	506.6	507.5	508.0	509.3	507.5
155°	521.8	521.8	522.2	524.1	521.8
157.5°	535.6	534.6	535.1	536.9	533.7
160°	547.5	546.1	546.6	548.4	546.1
162.5°	558.1	557.2	557.2	559.5	556.7
165°	567.3	566.4	566.8	568.7	565.9
167.5°	575.6	573.7	573.7	576.5	573.7
170°	582.0	580.2	580.2	582.9	579.7
172.5°	586.6	584.8	584.8	587.6	584.8
175°	589.9	588.0	588.0	590.8	587.6
177.5°	592.2	590.3	589.9	592.6	589.4
180°	591.2	591.2	591.2	591.2	591.2

(END OF REPORT)