

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: P1035959

Luminaire Tested: S125RDIW-B375D770UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035959
REPORT IS A COMBINATION OF REPORTS P1006565 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D770UB35-4F0-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

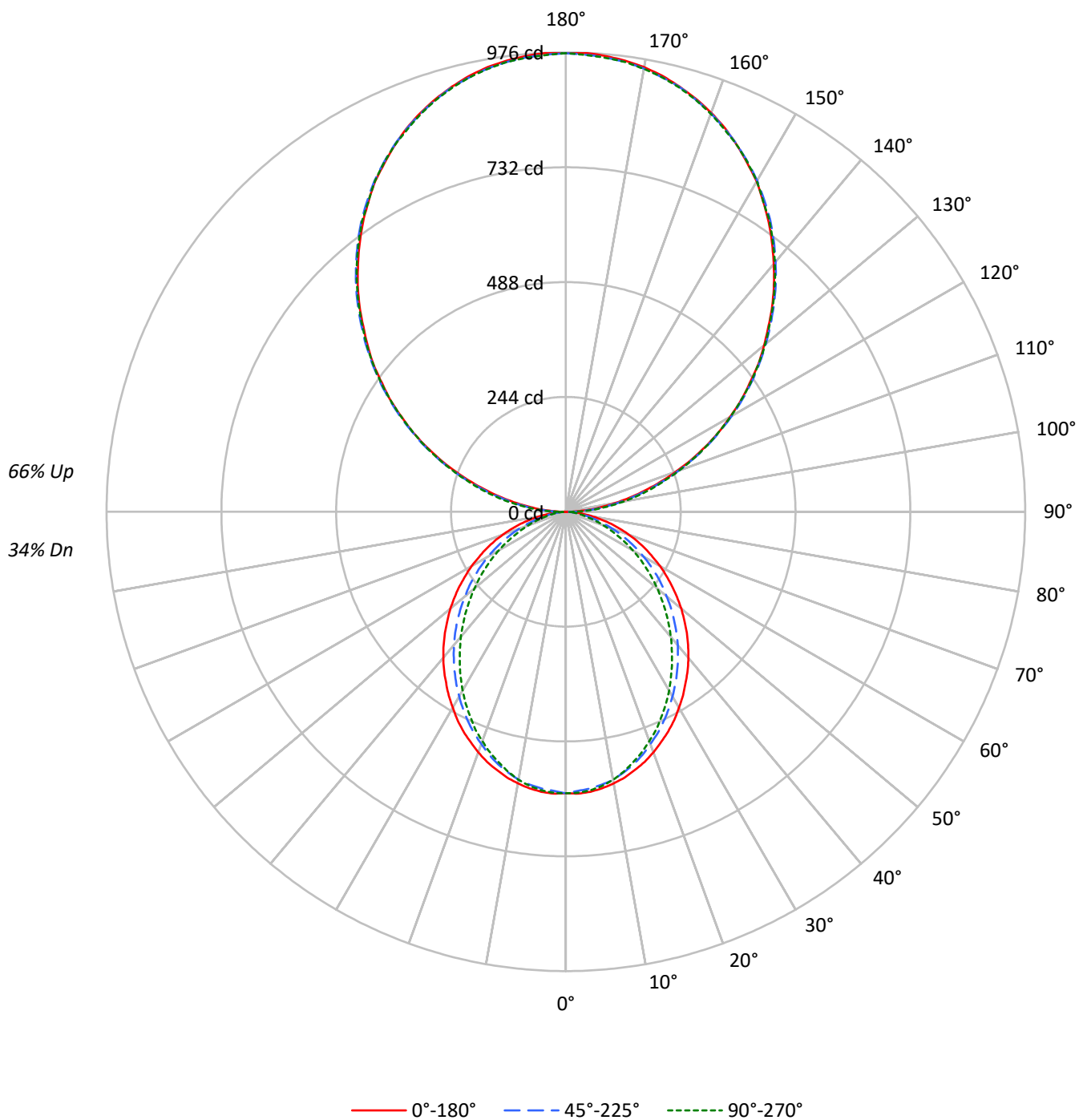
Lumens per Lamp: N/A
Luminaire Lumens: 4134.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	87	83	85	82	78	76	65	63	61	51	49	48	37	36	35
2	86	79	73	68	77	71	66	62	58	54	51	45	42	40	33	31	30
3	79	69	62	57	71	63	57	52	51	47	43	40	37	34	29	27	26
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22
5	66	55	47	41	59	50	43	38	40	35	32	32	28	25	24	21	19
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	21	19	17
7	56	44	36	31	50	40	34	29	33	28	24	26	22	20	20	17	15
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	15	14
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	17	14	12
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11

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	1.4
10°-20°	157.3	3.8
20°-30°	228.1	5.5
30°-40°	259.9	6.3
40°-50°	253.3	6.1
50°-60°	213.2	5.2
60°-70°	149.4	3.6
70°-80°	76.6	1.9
80°-90°	20.6	0.5
90°-100°	64.8	1.6
100°-110°	192.5	4.7
110°-120°	326.5	7.9
120°-130°	429.8	10.4
130°-140°	481.6	11.6
140°-150°	472.0	11.4
150°-160°	396.5	9.6
160°-170°	263.6	6.4
170°-180°	92.2	2.2
0°-30°	441.7	10.7
0°-40°	701.5	17.0
0°-60°	1168.0	28.3
0°-90°	1414.5	34.2
90°-120°	583.8	14.1
90°-150°	1967.2	47.6
90°-180°	2720.0	65.8
0°-180°	4134.1	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°	1	7	12	16	18	5
95°	49	51	58	64	65	52
105°	173	177	181	186	188	184
115°	327	330	331	331	330	323
125°	477	482	482	481	480	427
135°	620	625	626	626	623	478
145°	752	754	757	757	754	470
155°	860	860	861	864	860	396
165°	935	934	934	937	933	264
175°	972	969	969	974	968	92
180°	974	974	974	974	974	

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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°	0.8	6.8	12.1	15.9	18.2
92.5°	22.7	26.5	33.4	38.7	40.2
95°	49.3	50.8	58.4	63.7	65.2
97.5°	75.8	76.6	87.2	91.8	92.5
100°	106.2	106.2	116.0	122.8	124.4
102.5°	138.8	142.6	146.4	153.9	156.2
105°	172.9	176.7	181.2	185.8	188.1
107.5°	210.0	213.8	217.6	219.9	219.9
110°	248.7	252.5	254.8	257.1	256.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	289.7	292.7	293.5	291.9
115°	326.8	329.9	331.4	330.6	329.9
117.5°	366.3	367.0	368.5	369.3	366.3
120°	402.7	406.4	407.2	407.2	404.2
122.5°	442.1	442.8	445.1	444.4	442.1
125°	477.0	481.5	482.3	480.8	480.0
127.5°	515.6	517.9	518.7	517.9	516.4
130°	549.8	553.6	555.1	554.3	552.8
132.5°	583.9	590.7	590.0	589.2	586.9
135°	620.3	624.8	625.6	625.6	622.6
137.5°	654.4	659.0	660.5	661.2	657.4
140°	687.0	690.8	693.1	694.6	690.8
142.5°	719.6	722.7	725.7	726.4	722.7
145°	751.5	754.5	756.8	756.8	754.5
147.5°	781.0	783.3	784.8	787.1	781.0
150°	810.6	809.9	812.9	812.9	811.4
152.5°	834.9	836.4	837.2	839.4	836.4
155°	859.9	859.9	860.7	863.7	859.9
157.5°	882.7	881.1	881.9	884.9	879.6
160°	902.4	900.1	900.8	903.9	900.1
162.5°	919.8	918.3	918.3	922.1	917.5
165°	935.0	933.5	934.2	937.2	932.7
167.5°	948.6	945.6	945.6	950.1	945.6
170°	959.2	956.2	956.2	960.8	955.4
172.5°	966.8	963.8	963.8	968.3	963.8
175°	972.1	969.1	969.1	973.6	968.3
177.5°	975.9	972.9	972.1	976.7	971.4
180°	974.4	974.4	974.4	974.4	974.4

(END OF REPORT)