

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: P1031161

Luminaire Tested: S123RDIW-B340D755UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031161
REPORT IS A COMBINATION OF REPORTS P994351 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B340D755UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

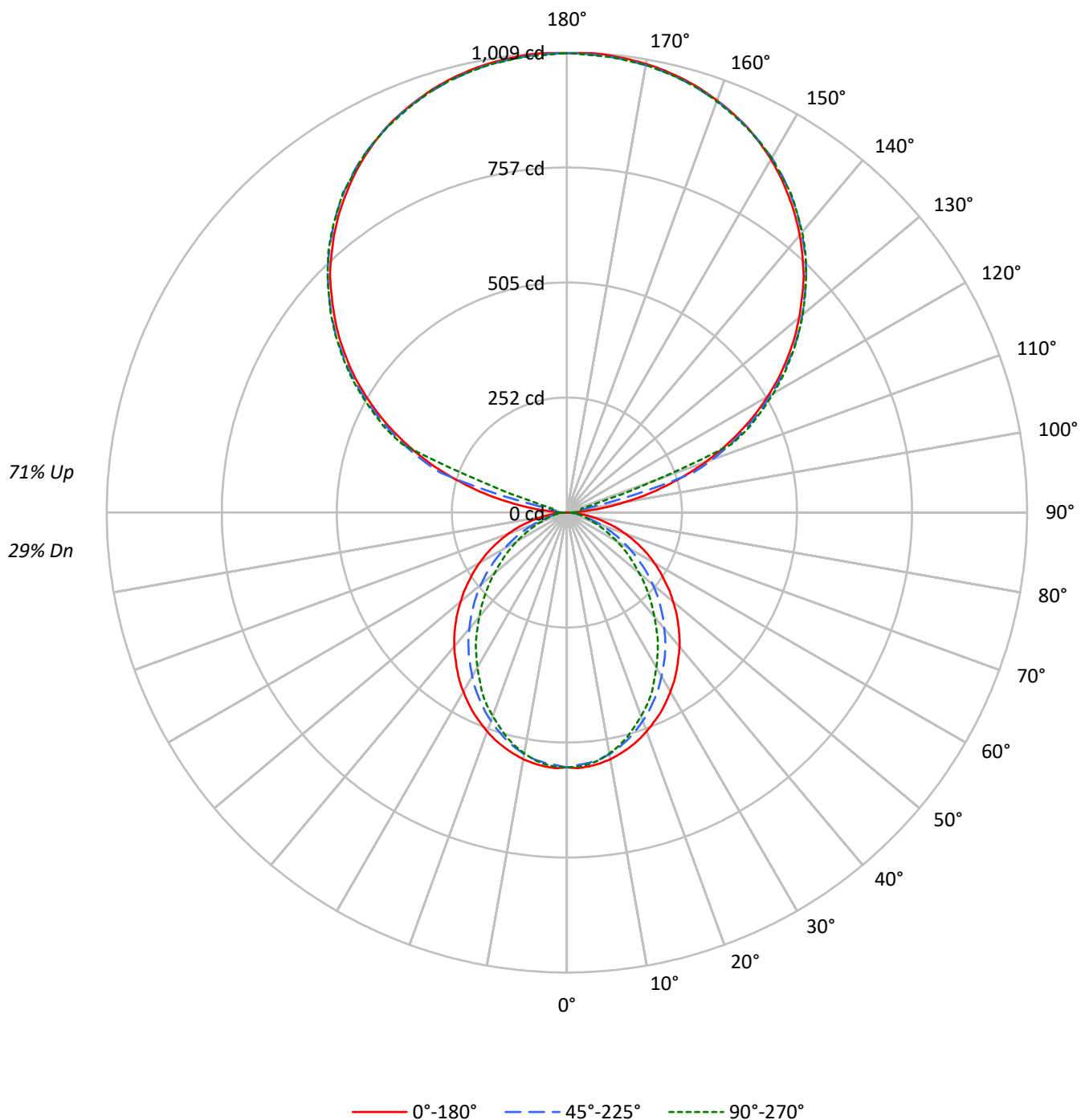
Lumens per Lamp: N/A
Luminaire Lumens: 4337.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	32
2	85	78	72	67	76	70	65	61	55	52	49	42	40	38	29	28	27
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23
4	71	61	53	48	63	55	48	43	44	39	35	33	30	28	23	21	20
5	65	54	46	41	58	49	42	37	39	34	30	30	26	24	21	19	17
6	60	48	41	35	54	44	37	32	35	30	27	27	23	21	19	17	15
7	55	44	36	31	50	40	33	28	32	27	23	24	21	18	17	15	14
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	13	11
10	44	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6018	6018	6018
5°	6028	5804	5789
10°	5980	5586	5477
15°	5902	5316	5134
20°	5801	5023	4752
25°	5695	4719	4388
30°	5561	4394	3960
35°	5423	4075	3570
40°	5292	3729	3138
45°	5124	3391	2751
50°	4940	3029	2350
55°	4749	2643	1981
60°	4566	2247	1609
65°	4329	1840	1256
70°	4032	1391	897
75°	3606	943	711
80°	3078	656	499
85°	2305	354	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.2
10°-20°	146.2	3.4
20°-30°	210.5	4.9
30°-40°	237.1	5.5
40°-50°	226.7	5.2
50°-60°	185.6	4.3
60°-70°	125.1	2.9
70°-80°	62.8	1.4
80°-90°	18.4	0.4
90°-100°	35.5	0.8
100°-110°	171.8	4.0
110°-120°	421.0	9.7
120°-130°	534.5	12.3
130°-140°	571.0	13.2
140°-150°	533.9	12.3
150°-160°	430.6	9.9
160°-170°	277.9	6.4
170°-180°	95.8	2.2
0°-30°	409.2	9.4
0°-40°	646.3	14.9
0°-60°	1058.7	24.4
0°-90°	1265.0	29.2
90°-120°	628.3	14.5
90°-150°	2267.7	52.3
90°-180°	3072.0	70.8
0°-180°	4337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	557	551	555	554	53
15°	533	528	516	513	510	150
25°	485	474	453	443	438	223
35°	420	404	375	356	348	263
45°	345	325	290	264	253	266
55°	262	240	201	175	166	235
65°	179	154	119	97	92	177
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	1	8	18	21	22	4
95°	46	15	23	28	28	55
105°	223	231	164	31	33	237
115°	418	423	430	437	440	413
125°	590	596	599	600	602	527
135°	734	739	742	744	742	565
145°	848	853	854	856	856	531
155°	934	932	933	937	932	430
165°	984	982	982	988	982	278
175°	1008	1004	1005	1010	1004	96
180°	1008	1008	1008	1008	1008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.1	559.1	559.1	559.1	559.1
2.5°	561.3	559.5	554.1	559.1	558.1
5°	559.1	556.8	551.3	555.4	554.5
7.5°	555.0	552.7	545.9	548.6	547.3
10°	549.5	546.4	538.2	538.6	536.4
12.5°	541.8	538.2	527.8	527.3	524.6
15°	533.2	528.2	515.5	513.3	510.1
17.5°	522.8	517.3	501.5	496.9	492.4
20°	511.0	503.7	486.5	480.6	475.2
22.5°	497.8	489.2	470.6	462.9	457.9
25°	485.1	473.8	453.0	443.4	438.4
27.5°	469.7	457.5	434.8	422.1	414.4
30°	453.9	440.3	414.9	399.5	392.2
32.5°	438.0	422.1	394.9	377.7	370.0
35°	419.9	403.5	375.4	355.9	347.8
37.5°	401.7	384.0	354.6	332.8	322.8
40°	384.5	364.5	332.3	308.8	298.3
42.5°	365.0	345.0	311.5	285.2	276.1
45°	345.0	324.6	289.7	263.9	253.0
47.5°	325.5	302.9	268.4	240.3	230.8
50°	303.8	282.5	245.7	217.6	207.2
52.5°	284.3	260.7	224.4	195.0	185.9
55°	262.1	239.9	201.3	175.0	165.9
57.5°	242.1	218.1	179.1	154.2	146.5
60°	221.3	196.3	158.7	134.2	126.5
62.5°	200.4	175.5	137.8	115.2	107.0
65°	179.1	154.2	118.8	96.6	91.6
67.5°	157.8	132.4	97.9	81.2	75.7
70°	136.9	112.4	80.7	64.8	59.8
72.5°	116.1	92.0	63.9	51.7	50.3
75°	94.8	73.0	48.1	43.5	42.6
77.5°	75.3	55.3	37.6	34.9	34.0
80°	56.7	38.1	28.6	27.2	26.3
82.5°	39.0	23.6	20.4	19.0	19.0
85°	24.0	14.1	12.7	11.8	11.8
87.5°	10.9	5.9	5.9	5.4	5.0
90°	0.7	8.2	18.0	21.0	22.5
92.5°	17.2	12.7	19.5	24.7	25.5
95°	45.7	15.0	23.2	28.4	28.4
97.5°	83.1	62.1	24.0	29.9	30.7
100°	126.5	141.5	24.7	30.7	31.4
102.5°	175.9	185.7	55.4	30.7	32.2
105°	223.1	231.3	164.0	31.4	32.9
107.5°	273.3	280.0	291.2	175.9	77.9
110°	323.4	329.4	337.6	312.9	205.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.3	376.6	384.8	391.5	390.0
115°	418.5	423.0	429.7	437.2	440.2
117.5°	464.9	470.1	473.9	479.9	480.6
120°	507.6	514.3	516.6	522.6	522.6
122.5°	551.0	556.2	559.2	563.0	563.7
125°	589.9	595.9	598.9	600.4	601.9
127.5°	628.9	634.9	638.6	640.8	639.3
130°	664.8	670.8	673.8	676.8	675.3
132.5°	699.2	705.2	707.5	710.5	708.2
135°	734.4	738.9	741.9	744.2	741.9
137.5°	764.4	770.4	771.9	775.6	774.1
140°	794.3	798.8	801.1	804.0	802.5
142.5°	822.0	826.5	828.8	831.0	828.8
145°	847.5	852.7	854.2	855.7	855.7
147.5°	872.2	875.9	877.4	878.9	875.2
150°	894.6	896.9	898.4	899.9	897.6
152.5°	914.8	915.6	916.3	919.3	915.6
155°	933.6	932.1	932.8	936.6	932.1
157.5°	948.5	948.5	947.8	952.3	946.3
160°	962.0	961.3	960.5	965.0	959.8
162.5°	974.7	972.5	971.7	977.0	972.5
165°	984.5	982.2	981.5	987.5	982.2
167.5°	992.7	989.7	989.7	995.7	989.7
170°	999.4	996.4	996.4	1002.4	996.4
172.5°	1003.9	1000.2	1000.9	1006.9	1000.2
175°	1007.7	1003.9	1004.7	1009.9	1003.9
177.5°	1009.2	1005.4	1006.2	1012.2	1004.7
180°	1007.7	1007.7	1007.7	1007.7	1007.7

(END OF REPORT)