

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: P1031140

Luminaire Tested: S123RDIW-B340D1535UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031140
REPORT IS A COMBINATION OF REPORTS P994262 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B340D1535UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

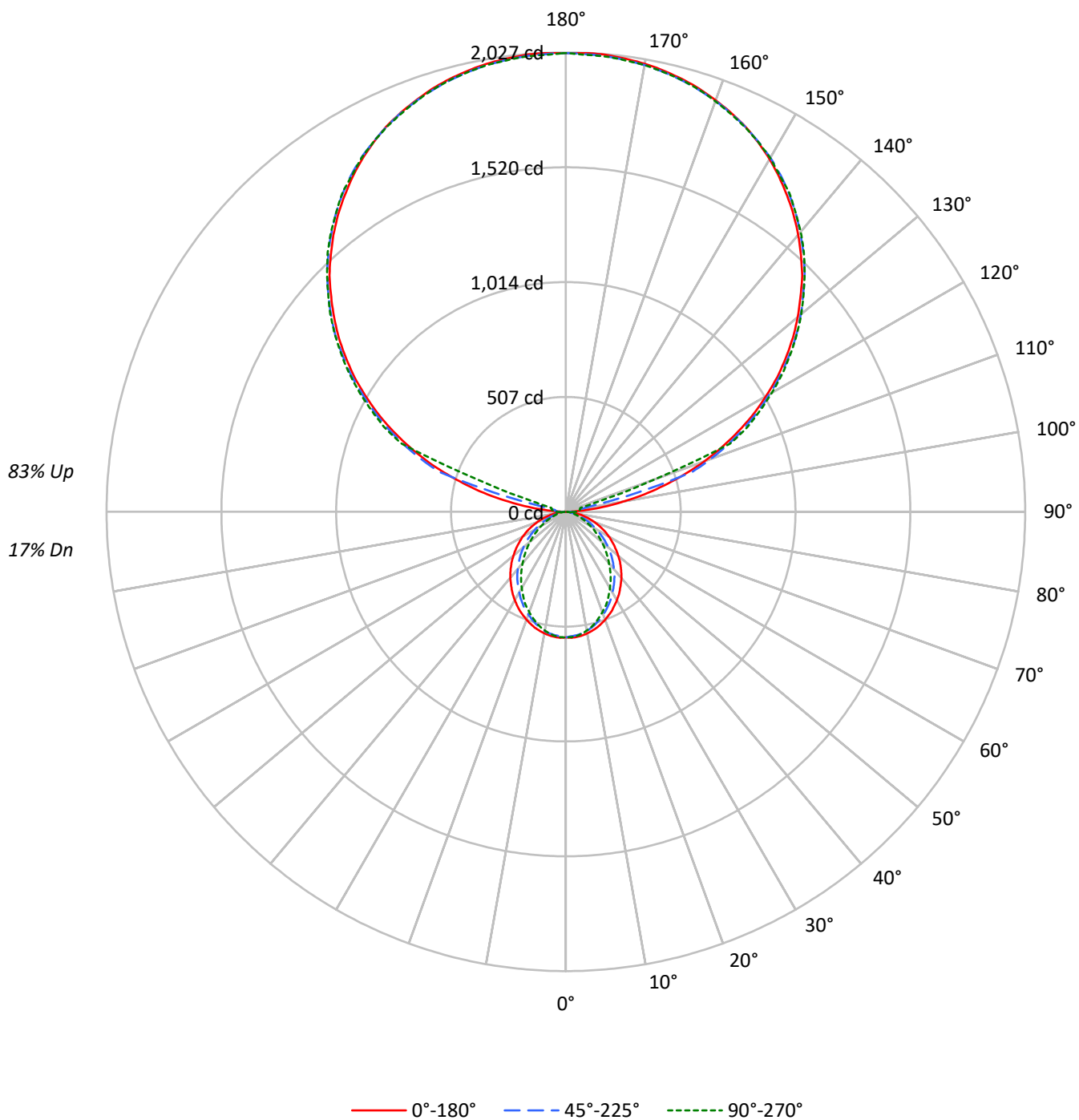
Lumens per Lamp: N/A
Luminaire Lumens: 7428.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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

TEST NUMBER: P1031140

CATALOG NUMBER: S123RDIW-B340D1535UB2750-4F0-XX-W2A-F_2700K

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	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26
1	90	86	83	79	79	76	73	70	57	55	53	39	38	37	23	22	22
2	82	75	70	65	72	67	62	58	50	47	44	34	33	31	20	19	19
3	75	66	60	54	66	59	53	48	44	40	37	31	28	26	18	17	16
4	69	59	51	46	60	52	46	41	39	35	32	27	25	23	16	15	14
5	63	52	44	39	55	46	40	35	35	30	27	24	22	19	14	13	12
6	58	46	39	33	51	41	35	30	31	27	23	22	19	17	13	12	11
7	53	42	34	29	47	37	31	26	28	24	20	20	17	15	12	10	9
8	49	38	30	25	43	34	27	23	26	21	18	18	15	13	11	9	8
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	10	9	7
10	43	31	24	20	37	28	22	18	21	17	14	15	12	10	9	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5970	5970	5970
5°	5979	5759	5743
10°	5933	5542	5433
15°	5856	5274	5093
20°	5754	4984	4714
25°	5650	4681	4354
30°	5517	4359	3929
35°	5379	4043	3541
40°	5249	3700	3114
45°	5084	3364	2729
50°	4901	3006	2331
55°	4711	2622	1966
60°	4529	2229	1596
65°	4296	1826	1246
70°	3999	1381	891
75°	3576	935	706
80°	3051	649	495
85°	2286	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5084 cd/sqm

TEST NUMBER: P1031140

CATALOG NUMBER: S123RDIW-B340D1535UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	0.7
10°-20°	145.0	2.0
20°-30°	208.8	2.8
30°-40°	235.2	3.2
40°-50°	225.0	3.0
50°-60°	184.1	2.5
60°-70°	124.2	1.7
70°-80°	62.3	0.8
80°-90°	20.3	0.3
90°-100°	71.4	1.0
100°-110°	345.1	4.6
110°-120°	845.7	11.4
120°-130°	1073.6	14.5
130°-140°	1146.9	15.4
140°-150°	1072.5	14.4
150°-160°	865.1	11.6
160°-170°	558.3	7.5
170°-180°	192.4	2.6
0°-30°	406.0	5.5
0°-40°	641.2	8.6
0°-60°	1050.3	14.1
0°-90°	1257.0	16.9
90°-120°	1262.2	17.0
90°-150°	4555.2	61.3
90°-180°	6171.0	83.1
0°-180°	7428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	555	552	547	551	550	53
15°	529	524	511	509	506	149
25°	481	470	449	440	435	221
35°	416	400	372	353	345	261
45°	342	322	287	262	251	264
55°	260	238	200	174	165	233
65°	178	153	118	96	91	176
75°	94	72	48	43	42	100
85°	24	14	13	12	12	26
90°	2	16	36	42	45	7
95°	92	30	47	57	57	110
105°	448	465	329	63	66	475
115°	841	850	863	878	884	830
125°	1185	1197	1203	1206	1209	1059
135°	1475	1484	1490	1495	1490	1136
145°	1702	1713	1716	1719	1719	1066
155°	1875	1872	1874	1881	1872	864
165°	1978	1973	1972	1984	1973	559
175°	2024	2017	2018	2029	2017	193
180°	2024	2024	2024	2024	2024	

TEST NUMBER: P1031140

CATALOG NUMBER: S123RDIW-B340D1535UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.6	554.6	554.6	554.6	554.6
2.5°	556.9	555.1	549.7	554.6	553.7
5°	554.6	552.4	547.0	551.0	550.1
7.5°	550.6	548.3	541.6	544.3	542.9
10°	545.2	542.0	533.9	534.4	532.1
12.5°	537.5	533.9	523.6	523.1	520.4
15°	529.0	524.0	511.4	509.2	506.0
17.5°	518.6	513.2	497.5	493.0	488.5
20°	506.9	499.7	482.7	476.8	471.4
22.5°	493.9	485.4	466.9	459.3	454.3
25°	481.3	470.1	449.4	439.9	435.0
27.5°	466.0	453.9	431.4	418.8	411.1
30°	450.3	436.8	411.6	396.3	389.1
32.5°	434.5	418.8	391.8	374.7	367.1
35°	416.5	400.3	372.4	353.1	345.0
37.5°	398.5	381.0	351.8	330.2	320.3
40°	381.4	361.7	329.7	306.3	296.0
42.5°	362.1	342.3	309.0	282.9	273.9
45°	342.3	322.1	287.4	261.8	251.0
47.5°	323.0	300.5	266.3	238.4	229.0
50°	301.4	280.2	243.8	215.9	205.6
52.5°	282.0	258.6	222.7	193.4	184.4
55°	260.0	238.0	199.7	173.6	164.6
57.5°	240.2	216.4	177.7	152.9	145.3
60°	219.5	194.8	157.4	133.1	125.5
62.5°	198.8	174.1	136.7	114.3	106.2
65°	177.7	152.9	117.9	95.8	90.9
67.5°	156.5	131.3	97.2	80.5	75.1
70°	135.8	111.6	80.1	64.3	59.4
72.5°	115.2	91.3	63.4	51.3	49.9
75°	94.0	72.4	47.7	43.2	42.3
77.5°	74.7	54.9	37.3	34.6	33.7
80°	56.2	37.8	28.3	27.0	26.1
82.5°	38.7	23.4	20.2	18.9	18.9
85°	23.8	13.9	12.6	11.7	11.7
87.5°	10.8	5.8	5.8	5.4	4.9
90°	1.5	16.5	36.1	42.1	45.1
92.5°	34.6	25.6	39.1	49.6	51.1
95°	91.7	30.1	46.6	57.1	57.1
97.5°	166.9	124.8	48.1	60.2	61.7
100°	254.2	284.2	49.6	61.7	63.2
102.5°	353.4	373.0	111.3	61.7	64.7
105°	448.2	464.7	329.3	63.2	66.2
107.5°	548.9	562.4	585.0	353.4	156.4
110°	649.7	661.7	678.2	628.6	413.6



TEST NUMBER: P1031140

CATALOG NUMBER: S123RDIW-B340D1535UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	745.9	756.4	773.0	786.5	783.5
115°	840.7	849.7	863.2	878.3	884.3
117.5°	933.9	944.4	951.9	964.0	965.5
120°	1019.6	1033.2	1037.7	1049.7	1049.7
122.5°	1106.8	1117.4	1123.4	1130.9	1132.4
125°	1185.0	1197.1	1203.1	1206.1	1209.1
127.5°	1263.2	1275.3	1282.8	1287.3	1284.3
130°	1335.4	1347.5	1353.5	1359.5	1356.5
132.5°	1404.6	1416.6	1421.2	1427.2	1422.7
135°	1475.3	1484.3	1490.3	1494.8	1490.3
137.5°	1535.4	1547.5	1550.5	1558.0	1555.0
140°	1595.6	1604.6	1609.1	1615.2	1612.1
142.5°	1651.2	1660.3	1664.8	1669.3	1664.8
145°	1702.4	1712.9	1715.9	1718.9	1718.9
147.5°	1752.0	1759.5	1762.5	1765.5	1758.0
150°	1797.1	1801.6	1804.6	1807.6	1803.1
152.5°	1837.7	1839.2	1840.7	1846.7	1839.2
155°	1875.3	1872.3	1873.8	1881.3	1872.3
157.5°	1905.4	1905.4	1903.9	1912.9	1900.9
160°	1932.5	1931.0	1929.5	1938.5	1928.0
162.5°	1958.0	1953.5	1952.0	1962.5	1953.5
165°	1977.6	1973.1	1971.6	1983.6	1973.1
167.5°	1994.1	1988.1	1988.1	2000.1	1988.1
170°	2007.7	2001.6	2001.6	2013.7	2001.6
172.5°	2016.7	2009.2	2010.7	2022.7	2009.2
175°	2024.2	2016.7	2018.2	2028.7	2016.7
177.5°	2027.2	2019.7	2021.2	2033.2	2018.2
180°	2024.2	2024.2	2024.2	2024.2	2024.2

(END OF REPORT)