

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: P1031632

Luminaire Tested: S123DIW-B340D1535UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031632
REPORT IS A COMBINATION OF REPORTS P991371 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D1535UB50-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

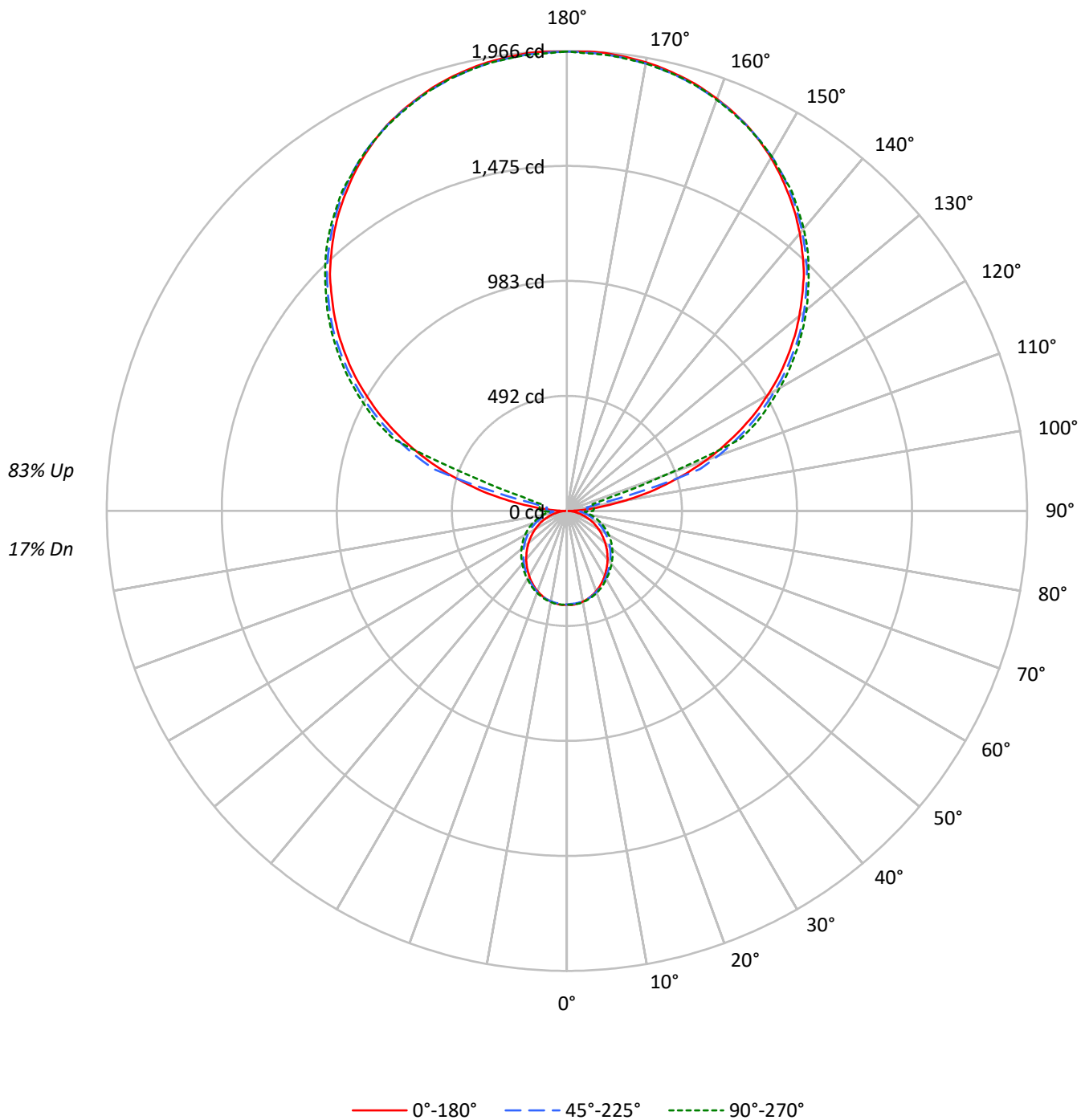
Lumens per Lamp: N/A
Luminaire Lumens: 7335.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	26	26	26
1	90	86	82	78	79	75	72	69	56	54	52	38	37	36	22	21	21
2	82	75	69	64	72	66	61	57	49	46	43	33	32	30	19	18	17
3	74	65	58	53	65	58	52	47	43	39	36	29	27	25	17	16	15
4	68	58	50	44	59	51	44	40	38	34	30	26	23	21	15	14	12
5	62	51	43	38	54	45	38	34	34	29	26	23	20	18	13	12	11
6	57	46	38	32	50	40	34	29	30	26	22	21	18	16	12	11	9
7	53	41	33	28	46	36	30	25	27	23	19	19	16	14	11	9	8
8	49	37	29	24	43	33	26	22	25	20	17	17	14	12	10	8	7
9	45	33	26	21	39	30	24	19	22	18	15	16	13	11	9	8	6
10	42	30	24	19	37	27	21	17	21	16	13	14	12	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4311	4311	4311
5°	4322	4184	4181
10°	4282	4071	4040
15°	4225	3946	3890
20°	4146	3807	3730
25°	4047	3649	3563
30°	3945	3507	3397
35°	3832	3358	3260
40°	3723	3222	3116
45°	3603	3089	2998
50°	3483	2959	2869
55°	3352	2824	2752
60°	3223	2687	2630
65°	3089	2540	2488
70°	2892	2377	2342
75°	2640	2190	2191
80°	2345	2001	2020
85°	2056	1846	1895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.5
10°-20°	108.3	1.5
20°-30°	162.0	2.2
30°-40°	193.4	2.6
40°-50°	202.3	2.8
50°-60°	189.9	2.6
60°-70°	158.6	2.2
70°-80°	113.4	1.5
80°-90°	71.4	1.0
90°-100°	111.6	1.5
100°-110°	365.9	5.0
110°-120°	841.0	11.5
120°-130°	1053.1	14.4
130°-140°	1117.7	15.2
140°-150°	1041.3	14.2
150°-160°	839.0	11.4
160°-170°	541.5	7.4
170°-180°	186.6	2.5
0°-30°	308.3	4.2
0°-40°	501.6	6.8
0°-60°	893.8	12.2
0°-90°	1237.2	16.9
90°-120°	1318.6	18.0
90°-150°	4530.7	61.8
90°-180°	6098.0	83.1
0°-180°	7335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	401	400	397	401	400	38
15°	382	383	383	387	386	108
25°	345	349	350	356	356	159
35°	297	304	309	316	318	186
45°	243	253	264	272	276	187
55°	185	199	215	227	230	166
65°	128	145	164	177	182	126
75°	69	90	112	126	131	74
85°	21	43	66	81	86	22
90°	7	43	84	105	112	9
95°	94	51	88	112	116	110
105°	438	465	352	106	113	464
115°	818	832	860	885	895	807
125°	1151	1162	1181	1193	1199	1028
135°	1432	1440	1451	1463	1461	1102
145°	1652	1661	1664	1671	1672	1034
155°	1819	1816	1817	1825	1816	838
165°	1918	1914	1912	1924	1914	542
175°	1963	1956	1957	1968	1956	187
180°	1963	1963	1963	1963	1963	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	402.7	401.4	397.9	401.4	400.9
5°	400.9	400.1	397.4	400.9	400.5
7.5°	397.9	397.9	395.3	399.6	399.2
10°	393.5	394.4	392.2	396.6	395.7
12.5°	388.3	389.6	388.3	392.2	391.3
15°	381.7	383.1	382.6	387.0	386.5
17.5°	373.9	376.5	376.1	380.0	379.1
20°	365.2	367.8	368.7	372.6	373.0
22.5°	356.0	358.6	359.9	365.2	364.7
25°	344.7	349.0	350.3	356.0	356.0
27.5°	333.8	338.6	341.2	346.0	346.4
30°	322.0	327.6	331.1	336.4	336.4
32.5°	308.9	315.4	320.2	325.9	327.2
35°	296.7	303.6	309.3	315.9	317.6
37.5°	283.6	291.4	298.0	305.4	306.7
40°	270.5	278.3	287.1	294.5	296.2
42.5°	256.1	266.1	275.3	283.6	286.2
45°	242.6	253.0	263.9	272.2	275.7
47.5°	228.2	240.0	252.2	261.3	263.9
50°	214.2	226.4	240.0	250.0	253.0
52.5°	199.4	212.5	227.7	238.2	242.1
55°	185.0	199.4	215.1	226.9	230.4
57.5°	171.0	185.9	202.9	214.6	218.6
60°	156.2	171.9	189.8	202.0	206.8
62.5°	142.2	158.4	177.6	189.8	194.1
65°	127.8	144.8	164.0	177.1	181.5
67.5°	113.4	131.3	150.5	164.9	168.4
70°	98.2	116.9	137.9	151.8	156.2
72.5°	84.2	103.0	124.8	139.2	143.5
75°	69.4	89.9	111.7	126.1	131.3
77.5°	56.7	77.2	99.0	114.3	118.2
80°	43.2	64.6	87.3	102.1	106.5
82.5°	31.4	53.2	76.3	91.2	95.5
85°	21.4	43.2	66.3	81.1	85.5
87.5°	13.1	34.9	57.2	72.0	76.3
90°	7.2	43.0	84.3	104.9	112.3
92.5°	38.7	48.8	83.7	108.3	113.7
95°	93.8	51.0	88.4	112.1	116.5
97.5°	166.3	141.2	87.3	112.0	117.8
100°	250.4	293.6	86.1	110.4	116.3
102.5°	346.3	377.4	143.2	107.4	114.6
105°	438.2	464.7	352.1	106.2	113.1
107.5°	535.5	557.7	597.5	384.7	197.5
110°	632.7	652.3	685.7	649.0	443.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	726.0	742.4	775.0	799.0	800.0
115°	817.5	831.5	860.3	885.4	894.7
117.5°	908.0	921.7	943.8	965.9	970.9
120°	990.6	1005.9	1024.7	1046.5	1049.5
122.5°	1075.2	1086.3	1105.6	1122.5	1127.1
125°	1150.7	1162.3	1180.9	1192.9	1198.9
127.5°	1226.5	1237.8	1256.0	1269.0	1269.2
130°	1296.5	1307.8	1322.3	1336.4	1336.1
132.5°	1363.2	1374.9	1385.7	1399.5	1398.1
135°	1431.8	1440.0	1450.6	1462.9	1460.7
137.5°	1490.1	1501.3	1507.3	1521.6	1520.9
140°	1547.9	1556.7	1562.4	1574.8	1574.1
142.5°	1601.9	1610.3	1614.6	1624.7	1622.5
145°	1651.5	1661.3	1664.2	1670.6	1672.3
147.5°	1699.2	1706.5	1709.4	1713.7	1708.2
150°	1743.0	1747.4	1750.3	1753.2	1749.7
152.5°	1782.4	1783.8	1785.3	1791.1	1783.8
155°	1818.8	1815.9	1817.4	1824.7	1815.9
157.5°	1848.0	1848.0	1846.5	1855.3	1843.6
160°	1874.3	1872.8	1871.3	1880.1	1869.9
162.5°	1899.1	1894.7	1893.2	1903.4	1894.7
165°	1918.0	1913.6	1912.2	1923.9	1913.6
167.5°	1934.1	1928.2	1928.2	1939.9	1928.2
170°	1947.2	1941.4	1941.4	1953.0	1941.4
172.5°	1955.9	1948.6	1950.1	1961.8	1948.6
175°	1963.2	1955.9	1957.4	1967.6	1955.9
177.5°	1966.1	1958.9	1960.3	1972.0	1957.4
180°	1963.2	1963.2	1963.2	1963.2	1963.2

(END OF REPORT)