

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: P1031617

Luminaire Tested: S123DIW-B340D1535UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031617
REPORT IS A COMBINATION OF REPORTS P991344 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D1535UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

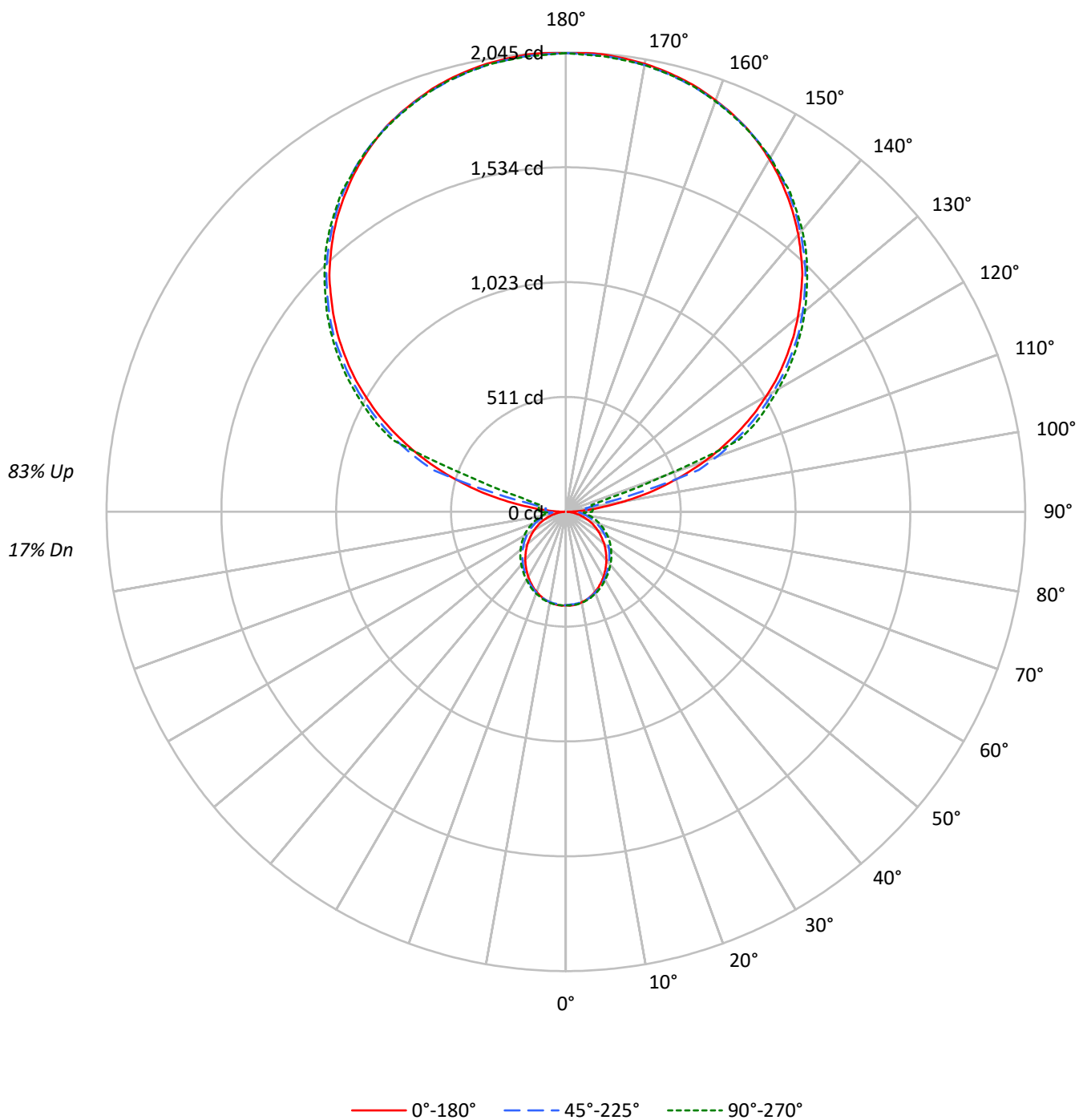
Lumens per Lamp: N/A
Luminaire Lumens: 7628.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	31	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°	4481	4481	4481
5°	4493	4349	4346
10°	4451	4232	4199
15°	4392	4102	4044
20°	4308	3957	3877
25°	4205	3793	3704
30°	4101	3646	3530
35°	3981	3490	3389
40°	3869	3349	3239
45°	3744	3211	3116
50°	3620	3075	2982
55°	3484	2936	2859
60°	3349	2793	2733
65°	3213	2641	2586
70°	3004	2470	2433
75°	2743	2276	2277
80°	2438	2079	2098
85°	2132	1919	1970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.5
10°-20°	112.6	1.5
20°-30°	168.3	2.2
30°-40°	201.0	2.6
40°-50°	210.3	2.8
50°-60°	197.3	2.6
60°-70°	164.8	2.2
70°-80°	117.9	1.5
80°-90°	74.2	1.0
90°-100°	116.1	1.5
100°-110°	380.5	5.0
110°-120°	874.7	11.5
120°-130°	1095.3	14.4
130°-140°	1162.5	15.2
140°-150°	1083.0	14.2
150°-160°	872.6	11.4
160°-170°	563.2	7.4
170°-180°	194.1	2.5
0°-30°	320.4	4.2
0°-40°	521.4	6.8
0°-60°	929.0	12.2
0°-90°	1285.9	16.9
90°-120°	1371.3	18.0
90°-150°	4712.2	61.8
90°-180°	6342.0	83.1
0°-180°	7628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	417	416	413	417	416	40
15°	397	398	398	402	402	112
25°	358	363	364	370	370	165
35°	308	316	322	328	330	193
45°	252	263	274	283	287	194
55°	192	207	224	236	239	172
65°	133	150	170	184	189	131
75°	72	93	116	131	136	77
85°	22	45	69	84	89	23
90°	7	45	88	109	117	9
95°	98	53	92	116	121	114
105°	456	483	366	110	118	483
115°	850	865	895	921	930	840
125°	1197	1209	1228	1241	1247	1069
135°	1489	1498	1509	1522	1519	1147
145°	1718	1728	1731	1738	1739	1075
155°	1892	1889	1890	1898	1889	872
165°	1995	1990	1989	2001	1990	564
175°	2042	2034	2036	2046	2034	194
180°	2042	2042	2042	2042	2042	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	418.5	417.2	413.6	417.2	416.7
5°	416.7	415.8	413.1	416.7	416.3
7.5°	413.6	413.6	410.8	415.4	414.9
10°	409.0	409.9	407.7	412.2	411.3
12.5°	403.6	404.9	403.6	407.7	406.7
15°	396.8	398.1	397.7	402.2	401.8
17.5°	388.6	391.3	390.9	395.0	394.1
20°	379.5	382.3	383.2	387.3	387.7
22.5°	370.0	372.7	374.1	379.5	379.1
25°	358.2	362.8	364.1	370.0	370.0
27.5°	346.9	351.9	354.6	359.6	360.0
30°	334.7	340.5	344.2	349.6	349.6
32.5°	321.0	327.8	332.8	338.7	340.1
35°	308.3	315.6	321.5	328.3	330.1
37.5°	294.7	302.9	309.7	317.4	318.8
40°	281.1	289.3	298.4	306.1	307.9
42.5°	266.2	276.6	286.1	294.7	297.5
45°	252.1	263.0	274.3	283.0	286.6
47.5°	237.2	249.4	262.1	271.6	274.3
50°	222.6	235.3	249.4	259.8	263.0
52.5°	207.2	220.8	236.7	247.6	251.7
55°	192.3	207.2	223.6	235.8	239.4
57.5°	177.8	193.2	210.9	223.1	227.2
60°	162.3	178.7	197.3	209.9	214.9
62.5°	147.8	164.6	184.6	197.3	201.8
65°	132.9	150.5	170.5	184.1	188.6
67.5°	117.9	136.5	156.4	171.4	175.0
70°	102.0	121.5	143.3	157.8	162.3
72.5°	87.5	107.0	129.7	144.7	149.2
75°	72.1	93.4	116.1	131.0	136.5
77.5°	58.9	80.3	102.9	118.8	122.9
80°	44.9	67.1	90.7	106.1	110.6
82.5°	32.6	55.3	79.4	94.8	99.3
85°	22.2	44.9	68.9	84.3	88.9
87.5°	13.6	36.3	59.4	74.8	79.4
90°	7.4	44.8	87.6	109.2	116.7
92.5°	40.3	50.7	87.0	112.7	118.3
95°	97.5	53.0	91.9	116.5	121.1
97.5°	172.9	146.8	90.7	116.5	122.5
100°	260.5	305.3	89.6	114.8	120.8
102.5°	360.1	392.5	149.0	111.6	119.2
105°	455.7	483.3	366.2	110.4	117.5
107.5°	556.9	580.1	621.4	400.0	205.4
110°	658.1	678.4	713.2	674.9	461.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	755.1	772.2	806.0	831.0	832.1
115°	850.3	864.8	894.8	920.8	930.5
117.5°	944.4	958.6	981.6	1004.6	1009.7
120°	1030.3	1046.3	1065.7	1088.4	1091.5
122.5°	1118.3	1129.8	1150.0	1167.6	1172.2
125°	1196.8	1208.9	1228.1	1240.6	1246.9
127.5°	1275.7	1287.3	1306.2	1319.9	1320.0
130°	1348.5	1360.1	1375.3	1390.0	1389.6
132.5°	1417.8	1429.9	1441.3	1455.5	1454.1
135°	1489.1	1497.8	1508.8	1521.5	1519.3
137.5°	1549.8	1561.5	1567.6	1582.5	1581.8
140°	1610.1	1619.2	1625.0	1637.9	1637.1
142.5°	1666.2	1674.8	1679.3	1689.8	1687.5
145°	1717.8	1727.9	1730.9	1737.6	1739.4
147.5°	1767.3	1774.9	1777.9	1782.4	1776.6
150°	1812.8	1817.4	1820.4	1823.5	1819.8
152.5°	1853.8	1855.3	1856.8	1862.9	1855.3
155°	1891.7	1888.7	1890.2	1897.8	1888.7
157.5°	1922.1	1922.1	1920.5	1929.6	1917.5
160°	1949.4	1947.9	1946.3	1955.4	1944.8
162.5°	1975.2	1970.6	1969.1	1979.7	1970.6
165°	1994.9	1990.3	1988.8	2000.9	1990.3
167.5°	2011.6	2005.5	2005.5	2017.6	2005.5
170°	2025.2	2019.2	2019.2	2031.3	2019.2
172.5°	2034.3	2026.7	2028.3	2040.4	2026.7
175°	2041.9	2034.3	2035.8	2046.5	2034.3
177.5°	2044.9	2037.4	2038.9	2051.0	2035.8
180°	2041.9	2041.9	2041.9	2041.9	2041.9

(END OF REPORT)