

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P982975

Luminaire Tested: S123IW-B1535UB40-4F0-XX-W2A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P982975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IW-B1535UB40-4F0-XX-W2A
Description: Define 3 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

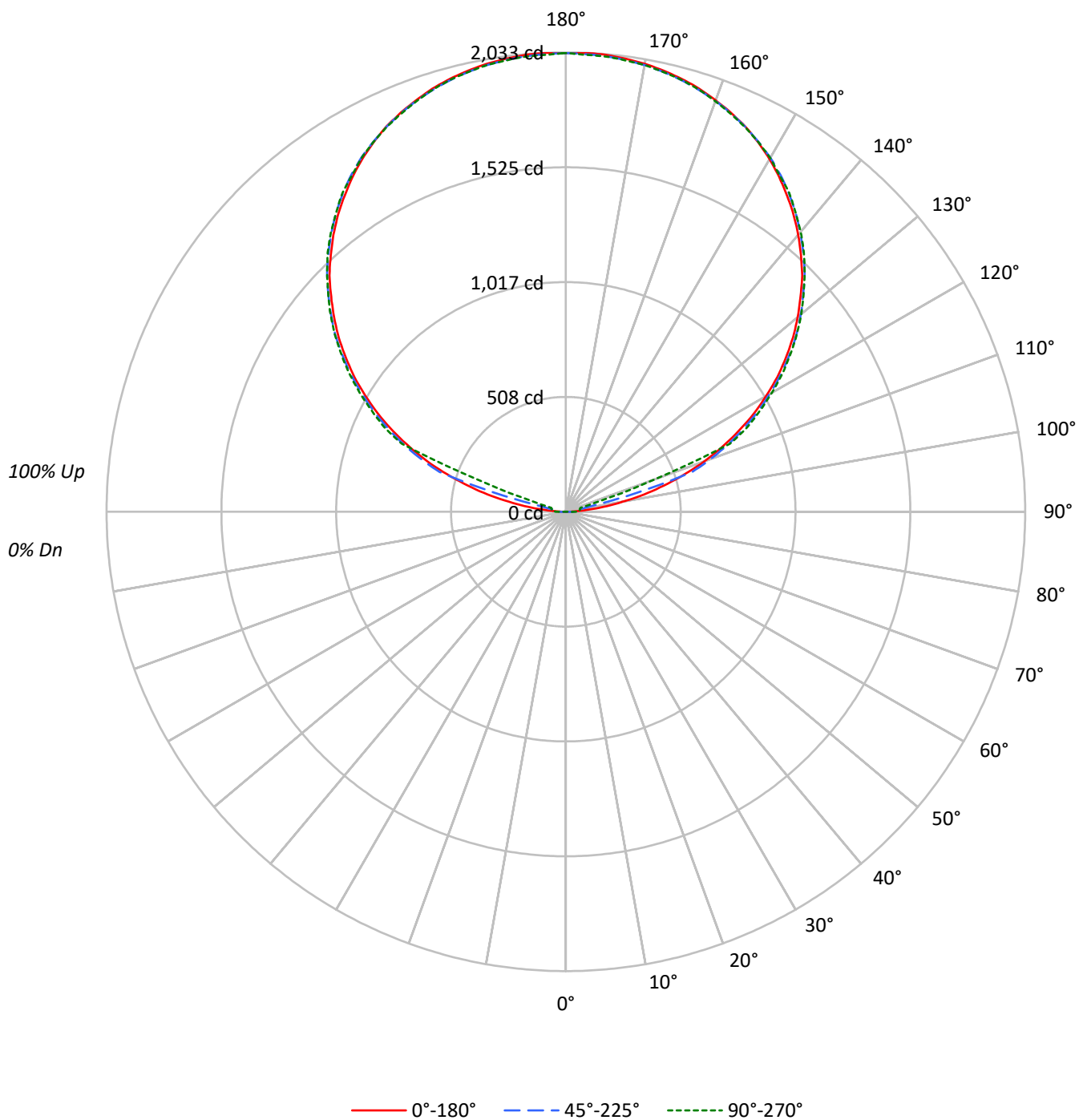
Lumens per Lamp: N/A
Luminaire Lumens: 6193.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 52.2
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
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56		32	32	32		10
1	87	83	79	76	74	71	68	65	48	47	45		28	27	26		9
2	79	72	66	62	67	62	57	53	42	40	37		24	23	22		8
3	72	63	56	51	61	54	49	44	37	34	31		21	20	18		7
4	65	56	48	43	56	48	42	37	33	29	26		19	17	16		6
5	60	49	42	36	51	42	36	32	29	25	22		17	15	13		5
6	55	44	36	31	47	38	32	27	26	22	19		15	13	11		5
7	50	39	32	27	43	34	28	23	23	19	17		14	11	10		4
8	47	35	28	23	40	30	24	20	21	17	14		12	10	9		4
9	43	32	25	20	37	27	22	18	19	15	13		11	9	8		4
10	40	29	22	18	34	25	19	16	17	14	11		10	8	7		3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	4.1	0.1
90°-100°	71.6	1.2
100°-110°	346.1	5.6
110°-120°	848.2	13.7
120°-130°	1076.7	17.4
130°-140°	1150.3	18.6
140°-150°	1075.6	17.4
150°-160°	867.6	14.0
160°-170°	559.9	9.0
170°-180°	192.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.1	0.1
90°-120°	1265.9	20.4
90°-150°	4568.5	73.8
90°-180°	6189.0	99.9
0°-180°	6193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	17	36	42	45	5
95°	92	30	47	57	57	110
105°	450	466	330	63	66	477
115°	843	852	866	881	887	833
125°	1188	1201	1207	1210	1213	1062
135°	1480	1489	1495	1499	1495	1139
145°	1707	1718	1721	1724	1724	1069
155°	1881	1878	1879	1887	1878	867
165°	1983	1979	1977	1989	1979	560
175°	2030	2023	2024	2035	2023	193
180°	2030	2030	2030	2030	2030	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.5	16.6	36.2	42.2	45.2
92.5°	34.7	25.6	39.2	49.8	51.3
95°	92.0	30.2	46.8	57.3	57.3
97.5°	167.4	125.2	48.3	60.3	61.8
100°	254.9	285.1	49.8	61.8	63.3
102.5°	354.4	374.0	111.6	61.8	64.9
105°	449.5	466.0	330.3	63.3	66.4
107.5°	550.5	564.1	586.7	354.4	156.9
110°	651.6	663.6	680.2	630.4	414.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.1	758.6	775.2	788.8	785.8
115°	843.1	852.2	865.7	880.8	886.9
117.5°	936.6	947.2	954.7	966.8	968.3
120°	1022.6	1036.2	1040.7	1052.8	1052.8
122.5°	1110.1	1120.6	1126.7	1134.2	1135.7
125°	1188.5	1200.6	1206.6	1209.6	1212.6
127.5°	1266.9	1279.0	1286.5	1291.1	1288.0
130°	1339.3	1351.4	1357.4	1363.5	1360.4
132.5°	1408.7	1420.8	1425.3	1431.3	1426.8
135°	1479.6	1488.6	1494.7	1499.2	1494.7
137.5°	1539.9	1552.0	1555.0	1562.5	1559.5
140°	1600.3	1609.3	1613.8	1619.9	1616.8
142.5°	1656.1	1665.1	1669.6	1674.2	1669.6
145°	1707.3	1717.9	1720.9	1723.9	1723.9
147.5°	1757.1	1764.7	1767.7	1770.7	1763.1
150°	1802.4	1806.9	1809.9	1812.9	1808.4
152.5°	1843.1	1844.6	1846.1	1852.1	1844.6
155°	1880.8	1877.8	1879.3	1886.8	1877.8
157.5°	1911.0	1911.0	1909.4	1918.5	1906.4
160°	1938.1	1936.6	1935.1	1944.1	1933.6
162.5°	1963.7	1959.2	1957.7	1968.3	1959.2
165°	1983.3	1978.8	1977.3	1989.4	1978.8
167.5°	1999.9	1993.9	1993.9	2006.0	1993.9
170°	2013.5	2007.5	2007.5	2019.5	2007.5
172.5°	2022.6	2015.0	2016.5	2028.6	2015.0
175°	2030.1	2022.6	2024.1	2034.6	2022.6
177.5°	2033.1	2025.6	2027.1	2039.2	2024.1
180°	2030.1	2030.1	2030.1	2030.1	2030.1



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END OF REPORT