

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: P1031770

Luminaire Tested: S123DIW-B560D1535UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031770
REPORT IS A COMBINATION OF REPORTS P991687 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B560D1535UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

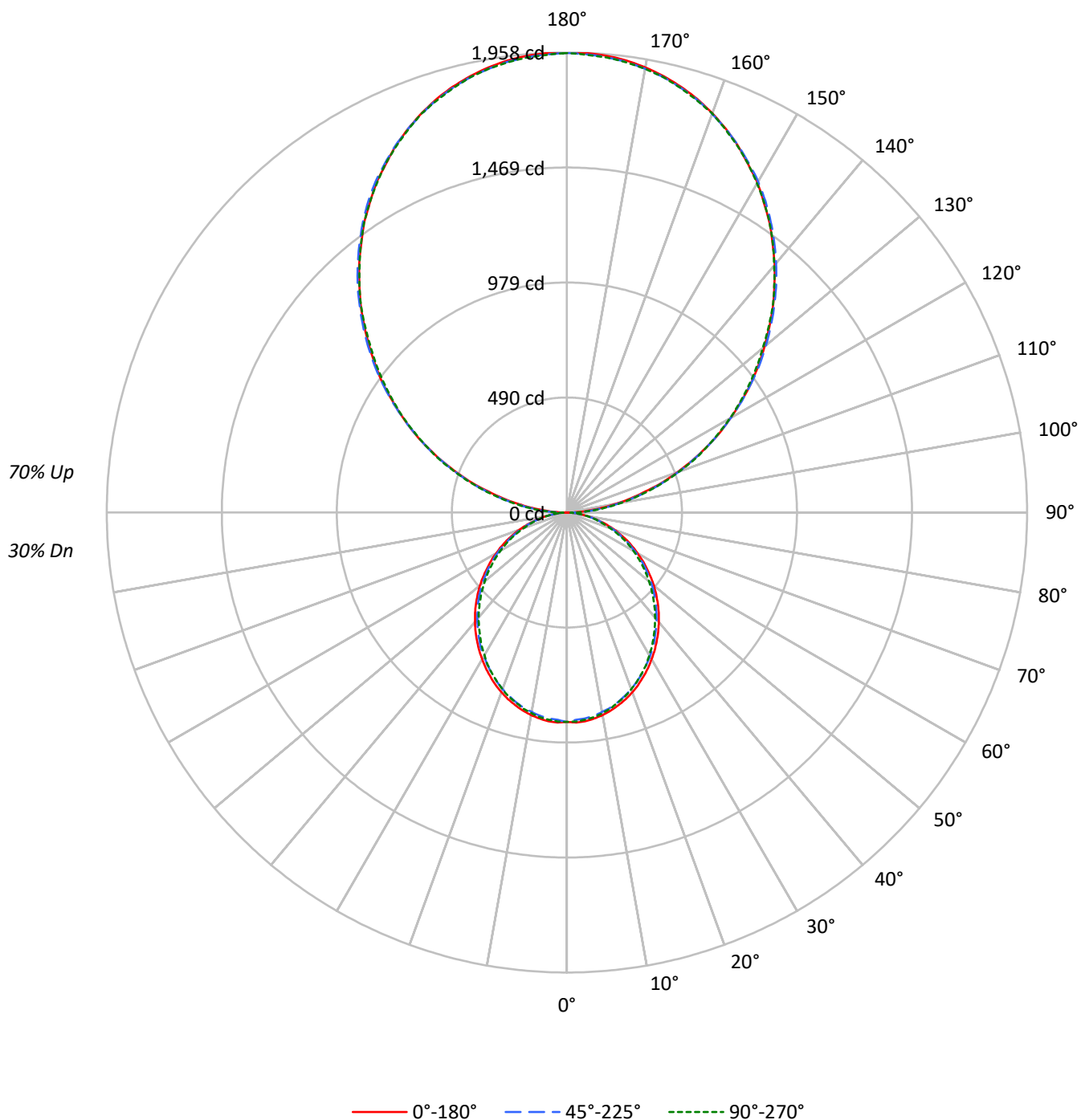
Lumens per Lamp: N/A
Luminaire Lumens: 7743.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	38	38	38
1	93	89	85	82	84	80	77	74	63	61	59	48	46	45	33	32	32
2	85	78	72	67	76	70	65	61	55	52	49	42	39	37	29	28	27
3	77	68	61	55	69	61	55	51	49	44	41	37	34	32	26	24	23
4	71	60	53	47	63	54	48	43	43	38	35	33	30	27	23	21	19
5	65	54	46	40	58	48	42	36	38	34	30	29	26	23	21	19	17
6	60	48	40	34	53	43	36	32	35	30	26	26	23	20	19	17	15
7	55	43	35	30	49	39	32	28	31	26	23	24	20	18	17	15	13
8	51	39	31	26	46	35	29	24	28	24	20	22	18	16	16	13	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	11
10	44	32	25	21	40	29	23	19	24	19	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9591	9591	9591
5°	9615	9261	9246
10°	9529	8946	8855
15°	9397	8621	8428
20°	9245	8259	8005
25°	9049	7877	7554
30°	8834	7482	7078
35°	8609	7078	6607
40°	8372	6654	6142
45°	8113	6241	5656
50°	7849	5781	5170
55°	7510	5302	4676
60°	7162	4773	4151
65°	6834	4200	3603
70°	6364	3567	2964
75°	5683	2823	2301
80°	4908	1985	1627
85°	3823	1067	816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.1
10°-20°	237.2	3.1
20°-30°	350.3	4.5
30°-40°	409.1	5.3
40°-50°	411.3	5.3
50°-60°	361.3	4.7
60°-70°	269.1	3.5
70°-80°	153.1	2.0
80°-90°	47.7	0.6
90°-100°	125.9	1.6
100°-110°	381.1	4.9
110°-120°	648.8	8.4
120°-130°	853.5	11.0
130°-140°	959.4	12.4
140°-150°	943.2	12.2
150°-160°	794.1	10.3
160°-170°	528.7	6.8
170°-180°	185.1	2.4
0°-30°	671.5	8.7
0°-40°	1080.6	14.0
0°-60°	1853.3	23.9
0°-90°	2323.2	30.0
90°-120°	1155.8	14.9
90°-150°	3912.0	50.5
90°-180°	5420.0	70.0
0°-180°	7743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	892	888	880	887	886	85
15°	849	846	836	842	837	239
25°	771	766	756	757	755	355
35°	667	662	652	647	644	417
45°	546	543	533	524	520	422
55°	414	414	404	395	392	371
65°	283	279	271	265	263	279
75°	149	146	144	140	138	160
85°	40	38	38	37	37	43
90°	2	17	37	43	46	9
95°	91	101	114	120	120	100
105°	346	349	363	363	366	370
115°	653	658	655	656	655	646
125°	956	960	957	951	945	852
135°	1240	1249	1248	1242	1238	955
145°	1504	1507	1512	1510	1504	940
155°	1722	1722	1724	1730	1719	793
165°	1876	1872	1872	1881	1870	529
175°	1951	1945	1945	1954	1944	185
180°	1956	1956	1956	1956	1956	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.0	891.0	891.0	891.0	891.0
2.5°	894.9	891.8	883.4	891.0	890.3
5°	891.8	888.0	879.6	887.2	885.7
7.5°	884.9	881.1	872.7	879.6	878.8
10°	875.7	871.9	861.9	868.8	867.3
12.5°	863.5	860.4	851.2	855.8	855.0
15°	848.9	845.8	835.9	842.0	837.4
17.5°	832.8	829.0	819.0	823.6	822.1
20°	814.4	809.8	799.9	802.9	800.6
22.5°	793.7	789.1	779.2	781.5	778.4
25°	770.8	766.2	756.2	757.0	754.7
27.5°	747.0	742.4	731.7	732.5	730.2
30°	721.0	717.1	706.4	706.4	701.0
32.5°	694.9	689.5	681.9	676.5	674.2
35°	666.6	662.0	652.0	647.4	643.6
37.5°	638.2	632.1	622.1	616.8	614.5
40°	608.3	603.7	593.0	586.9	583.8
42.5°	578.5	573.1	562.4	556.2	553.2
45°	546.3	543.2	533.2	524.1	520.2
47.5°	514.9	510.3	501.1	491.9	488.8
50°	482.7	478.9	468.9	460.5	455.9
52.5°	449.0	446.7	435.9	429.1	424.5
55°	414.5	413.7	403.8	395.3	391.5
57.5°	382.3	379.3	371.6	363.9	359.3
60°	347.1	346.3	337.1	330.2	326.4
62.5°	315.7	313.4	304.2	297.3	295.0
65°	282.7	278.9	271.2	265.1	262.8
67.5°	247.5	244.4	238.3	232.9	229.8
70°	216.1	211.5	206.9	201.5	197.7
72.5°	183.1	180.0	174.7	170.1	168.6
75°	149.4	146.3	144.0	140.2	137.9
77.5°	119.5	118.0	114.9	111.9	111.9
80°	90.4	88.1	86.6	85.8	85.8
82.5°	62.1	62.1	62.1	60.5	59.8
85°	39.8	38.3	38.3	36.8	36.8
87.5°	19.9	17.6	16.9	16.1	16.1
90°	1.5	16.9	36.9	43.0	46.1
92.5°	46.1	55.3	64.5	69.1	66.1
95°	90.7	101.4	113.7	119.9	119.9
97.5°	149.0	156.7	165.9	173.6	172.1
100°	209.0	218.2	225.9	230.5	233.6
102.5°	278.1	282.7	293.5	298.1	296.6
105°	345.7	348.8	362.6	362.6	365.7
107.5°	425.6	427.2	433.3	437.9	436.4
110°	499.4	502.5	505.5	511.7	508.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.2	577.7	577.7	585.4	585.4
115°	653.0	657.7	654.6	656.1	654.6
117.5°	731.4	732.9	729.9	729.9	725.3
120°	803.6	812.8	805.2	803.6	800.6
122.5°	878.9	885.1	882.0	877.4	872.8
125°	955.7	960.4	957.3	951.1	945.0
127.5°	1026.4	1035.6	1032.6	1023.4	1017.2
130°	1097.1	1109.4	1104.8	1098.6	1087.9
132.5°	1167.8	1180.1	1177.0	1169.3	1161.6
135°	1240.0	1249.2	1247.7	1241.5	1238.5
137.5°	1306.1	1313.8	1318.4	1310.7	1306.1
140°	1375.2	1382.9	1384.4	1382.9	1372.2
142.5°	1438.2	1445.9	1449.0	1447.4	1439.8
145°	1504.3	1507.4	1512.0	1510.4	1504.3
147.5°	1561.2	1567.3	1571.9	1571.9	1562.7
150°	1621.1	1624.2	1627.2	1627.2	1618.0
152.5°	1670.3	1674.9	1676.4	1679.5	1671.8
155°	1722.5	1722.5	1724.0	1730.2	1719.4
157.5°	1767.1	1765.5	1767.1	1773.2	1764.0
160°	1808.5	1805.5	1805.5	1813.2	1807.0
162.5°	1845.4	1840.8	1842.3	1850.0	1839.3
165°	1876.2	1871.5	1871.5	1880.8	1870.0
167.5°	1902.3	1896.1	1897.7	1906.9	1897.7
170°	1923.8	1917.6	1917.6	1928.4	1917.6
172.5°	1940.7	1934.5	1934.5	1943.8	1933.0
175°	1951.4	1945.3	1945.3	1954.5	1943.8
177.5°	1957.6	1951.4	1951.4	1960.7	1949.9
180°	1956.1	1956.1	1956.1	1956.1	1956.1

(END OF REPORT)