

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: P1031474

Luminaire Tested: S123DIW-B1165D1535UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031474
REPORT IS A COMBINATION OF REPORTS P991015 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D1535UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

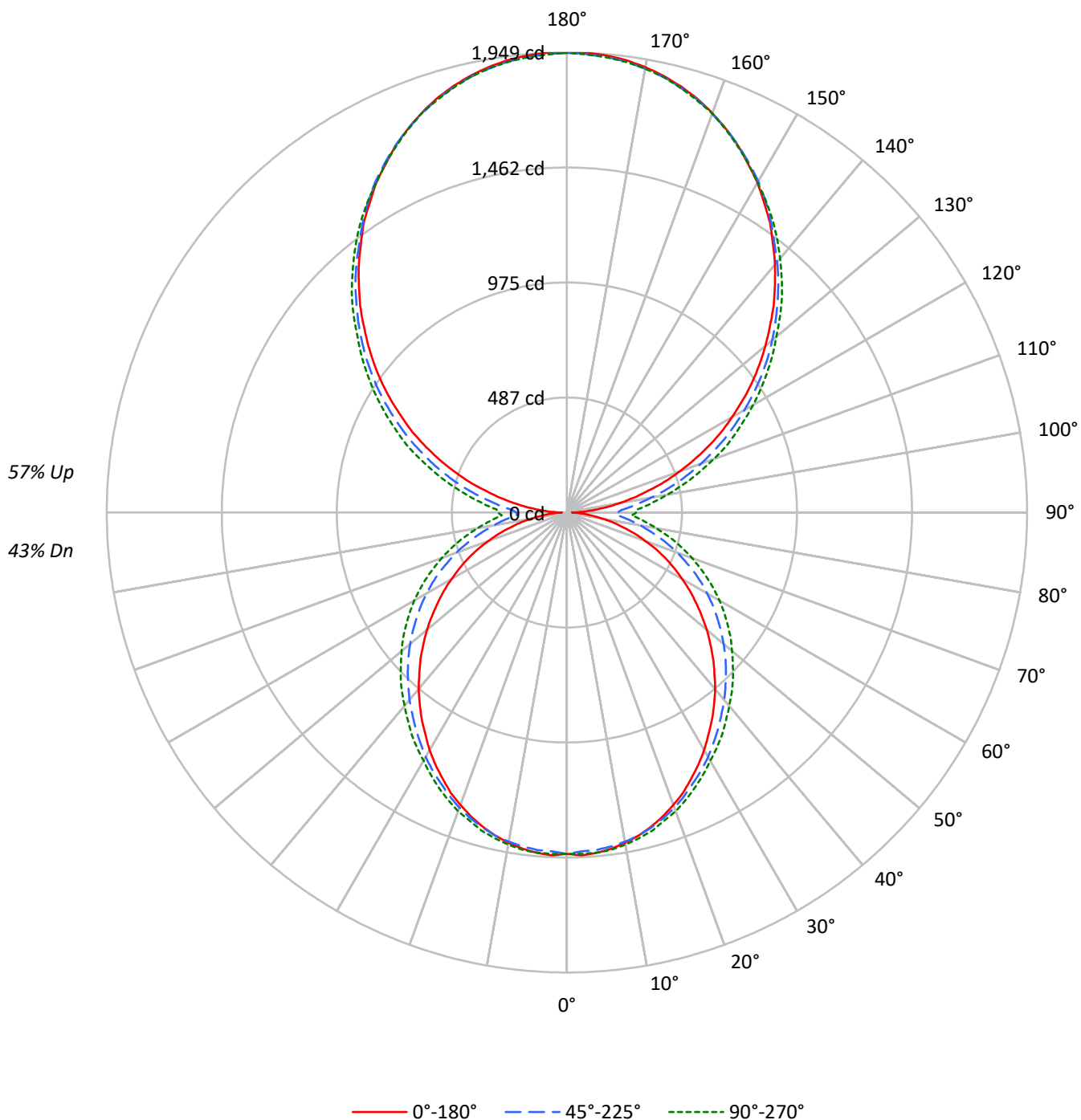
Lumens per Lamp: N/A
Luminaire Lumens: 10261.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	91	87	83	87	83	79	76	68	66	63	55	53	52	43	42	40
2	86	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	33	30	28
4	72	61	53	46	65	56	49	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	36	31	33	29	26	26	23	21
6	60	48	40	34	55	44	37	32	37	31	27	30	26	23	24	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.3
10°-20°	391.1	3.8
20°-30°	584.8	5.7
30°-40°	698.2	6.8
40°-50°	730.6	7.1
50°-60°	685.6	6.7
60°-70°	572.6	5.6
70°-80°	409.5	4.0
80°-90°	247.8	2.4
90°-100°	278.5	2.7
100°-110°	492.0	4.8
110°-120°	721.2	7.0
120°-130°	892.8	8.7
130°-140°	974.6	9.5
140°-150°	943.2	9.2
150°-160°	790.7	7.7
160°-170°	526.4	5.1
170°-180°	184.3	1.8
0°-30°	1113.0	10.8
0°-40°	1811.3	17.7
0°-60°	3227.4	31.5
0°-90°	4457.2	43.4
90°-120°	1491.7	14.5
90°-150°	4302.3	41.9
90°-180°	5804.0	56.6
0°-180°	10261.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	22	114	215	274	293	21
95°	108	180	269	324	340	113
105°	357	398	479	523	541	381
115°	658	682	735	775	786	652
125°	956	961	1004	1031	1036	854
135°	1238	1246	1261	1284	1288	954
145°	1500	1501	1506	1517	1517	936
155°	1715	1715	1717	1723	1712	790
165°	1868	1864	1864	1873	1862	527
175°	1943	1937	1937	1946	1936	185
180°	1948	1948	1948	1948	1948	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	22.0	114.5	214.7	274.4	293.2
92.5°	64.8	141.7	229.7	286.3	297.4
95°	107.6	179.8	269.2	324.1	339.8
97.5°	164.2	228.6	311.7	366.7	380.9
100°	222.3	281.9	361.9	412.2	431.1
102.5°	289.5	338.2	419.8	468.5	482.8
105°	356.9	397.7	479.2	523.4	540.6
107.5°	434.8	469.5	540.2	587.3	599.9
110°	506.8	538.1	604.2	651.3	660.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.3	606.8	666.7	713.7	727.9
115°	658.2	681.7	735.3	774.6	785.7
117.5°	736.2	750.3	800.8	838.6	846.6
120°	806.5	823.6	867.9	902.6	910.6
122.5°	881.5	890.8	936.6	966.6	973.1
125°	956.4	961.0	1003.6	1030.6	1035.5
127.5°	1026.8	1034.5	1070.7	1093.0	1098.0
130°	1097.2	1107.9	1134.8	1158.6	1157.3
132.5°	1166.0	1178.3	1198.8	1219.5	1222.9
135°	1238.0	1245.5	1261.3	1283.6	1288.3
137.5°	1303.7	1309.8	1325.4	1342.9	1346.2
140°	1371.0	1378.6	1384.9	1406.9	1404.1
142.5°	1433.7	1439.8	1442.8	1461.8	1462.1
145°	1499.5	1501.0	1505.6	1516.6	1516.8
147.5°	1554.5	1560.7	1565.2	1569.9	1567.1
150°	1614.2	1617.3	1620.3	1620.3	1614.3
152.5°	1663.2	1667.8	1669.3	1672.3	1664.7
155°	1715.2	1715.2	1716.7	1722.8	1712.1
157.5°	1759.6	1758.0	1759.6	1765.7	1756.5
160°	1800.9	1797.8	1797.8	1805.5	1799.3
162.5°	1837.6	1833.0	1834.5	1842.2	1831.5
165°	1868.2	1863.6	1863.6	1872.8	1862.1
167.5°	1894.2	1888.1	1889.6	1898.8	1889.6
170°	1915.6	1909.5	1909.5	1920.2	1909.5
172.5°	1932.5	1926.3	1926.3	1935.5	1924.8
175°	1943.2	1937.0	1937.0	1946.2	1935.5
177.5°	1949.3	1943.2	1943.2	1952.3	1941.6
180°	1947.8	1947.8	1947.8	1947.8	1947.8

(END OF REPORT)