

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: P1031278

Luminaire Tested: S123DIW-B1000D1030UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031278
REPORT IS A COMBINATION OF REPORTS P990561 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1030UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

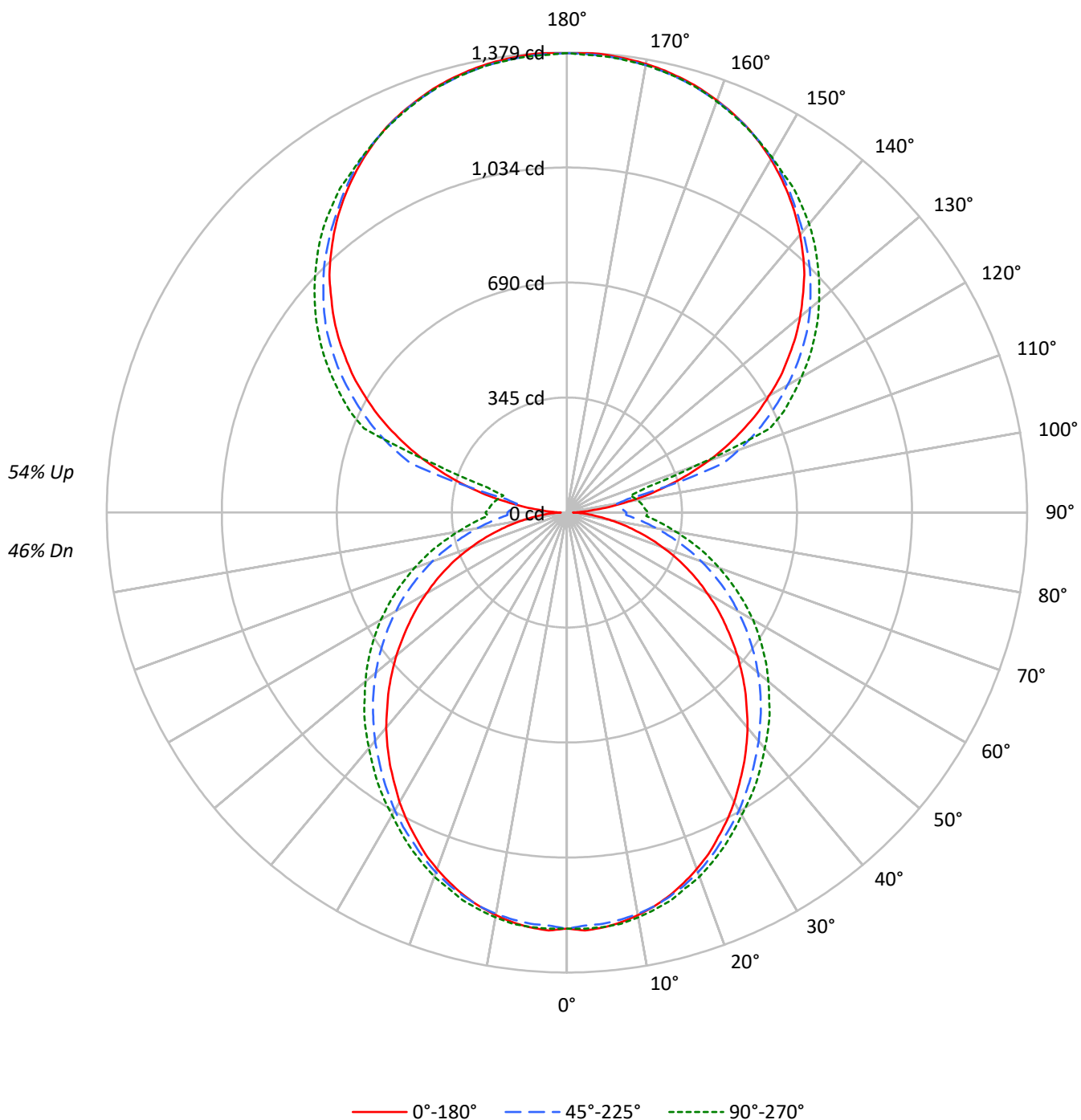
Lumens per Lamp: N/A
Luminaire Lumens: 8393.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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	81	81	81	66	66	66	52	52	52
1	96	91	87	83	88	84	80	77	70	67	64	57	55	53	45	43	42
2	87	79	73	67	79	73	67	62	60	56	53	49	46	43	39	37	35
3	79	69	62	55	72	64	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	48	40	34	55	45	37	32	38	32	28	31	26	23	25	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	20	17	15
9	48	36	28	23	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	17	15	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.4
10°-20°	337.3	4.0
20°-30°	504.4	6.0
30°-40°	602.3	7.2
40°-50°	630.1	7.5
50°-60°	591.3	7.0
60°-70°	493.9	5.9
70°-80°	353.2	4.2
80°-90°	212.9	2.5
90°-100°	180.6	2.2
100°-110°	331.9	4.0
110°-120°	640.2	7.6
120°-130°	767.4	9.1
130°-140°	796.9	9.5
140°-150°	733.1	8.7
150°-160°	588.5	7.0
160°-170°	379.8	4.5
170°-180°	130.9	1.6
0°-30°	960.1	11.4
0°-40°	1562.3	18.6
0°-60°	2783.8	33.2
0°-90°	3843.7	45.8
90°-120°	1152.6	13.7
90°-150°	3450.0	41.1
90°-180°	4549.0	54.2
0°-180°	8393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	19	96	178	228	244	16
95°	77	88	166	216	229	86
105°	316	360	326	183	197	334
115°	579	601	659	702	717	572
125°	810	818	862	892	904	724
135°	1006	1011	1030	1058	1062	775
145°	1160	1165	1167	1180	1186	726
155°	1276	1274	1275	1280	1274	588
165°	1345	1342	1341	1350	1342	380
175°	1377	1372	1373	1380	1372	131
180°	1377	1377	1377	1377	1377	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	18.7	95.5	178.1	228.3	244.0
92.5°	39.8	92.1	169.3	221.3	234.5
95°	77.3	88.4	166.2	215.5	229.1
97.5°	127.2	147.4	159.1	208.0	222.6
100°	185.1	249.1	152.0	199.5	214.2
102.5°	251.3	302.6	185.8	190.0	205.7
105°	315.8	359.6	326.0	183.0	197.2
107.5°	382.9	420.6	491.8	370.8	249.1
110°	450.2	482.8	548.4	550.0	414.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	515.7	541.8	604.7	647.9	658.0
115°	578.7	601.2	659.3	702.1	717.1
117.5°	642.2	660.2	711.5	752.3	764.1
120°	699.1	715.1	763.1	802.4	811.9
122.5°	758.4	768.4	814.6	849.6	860.1
125°	810.3	818.5	862.0	892.5	904.1
127.5°	863.5	870.3	909.4	939.7	947.1
130°	912.6	919.4	950.7	980.6	986.8
132.5°	958.3	966.5	989.9	1018.5	1025.0
135°	1006.4	1011.2	1030.2	1057.8	1061.5
137.5°	1047.3	1054.2	1065.7	1092.5	1097.3
140°	1086.9	1093.1	1100.1	1124.6	1129.4
142.5°	1124.8	1129.5	1132.6	1153.4	1157.1
145°	1159.6	1165.3	1167.4	1180.3	1185.7
147.5°	1191.9	1197.0	1199.1	1205.2	1205.5
150°	1222.6	1225.7	1227.7	1229.8	1229.4
152.5°	1250.2	1251.3	1252.3	1256.4	1251.3
155°	1275.8	1273.8	1274.8	1279.9	1273.8
157.5°	1296.3	1296.3	1295.3	1301.4	1293.2
160°	1314.7	1313.7	1312.7	1318.8	1311.6
162.5°	1332.1	1329.0	1328.0	1335.2	1329.0
165°	1345.4	1342.3	1341.3	1349.5	1342.3
167.5°	1356.7	1352.6	1352.6	1360.7	1352.6
170°	1365.9	1361.8	1361.8	1370.0	1361.8
172.5°	1372.0	1366.9	1367.9	1376.1	1366.9
175°	1377.1	1372.0	1373.0	1380.2	1372.0
177.5°	1379.2	1374.0	1375.1	1383.3	1373.0
180°	1377.1	1377.1	1377.1	1377.1	1377.1

(END OF REPORT)