

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: P1011036

Luminaire Tested: S123DIP-B1000D1025UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011036
REPORT IS A COMBINATION OF REPORTS P989051 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB30-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

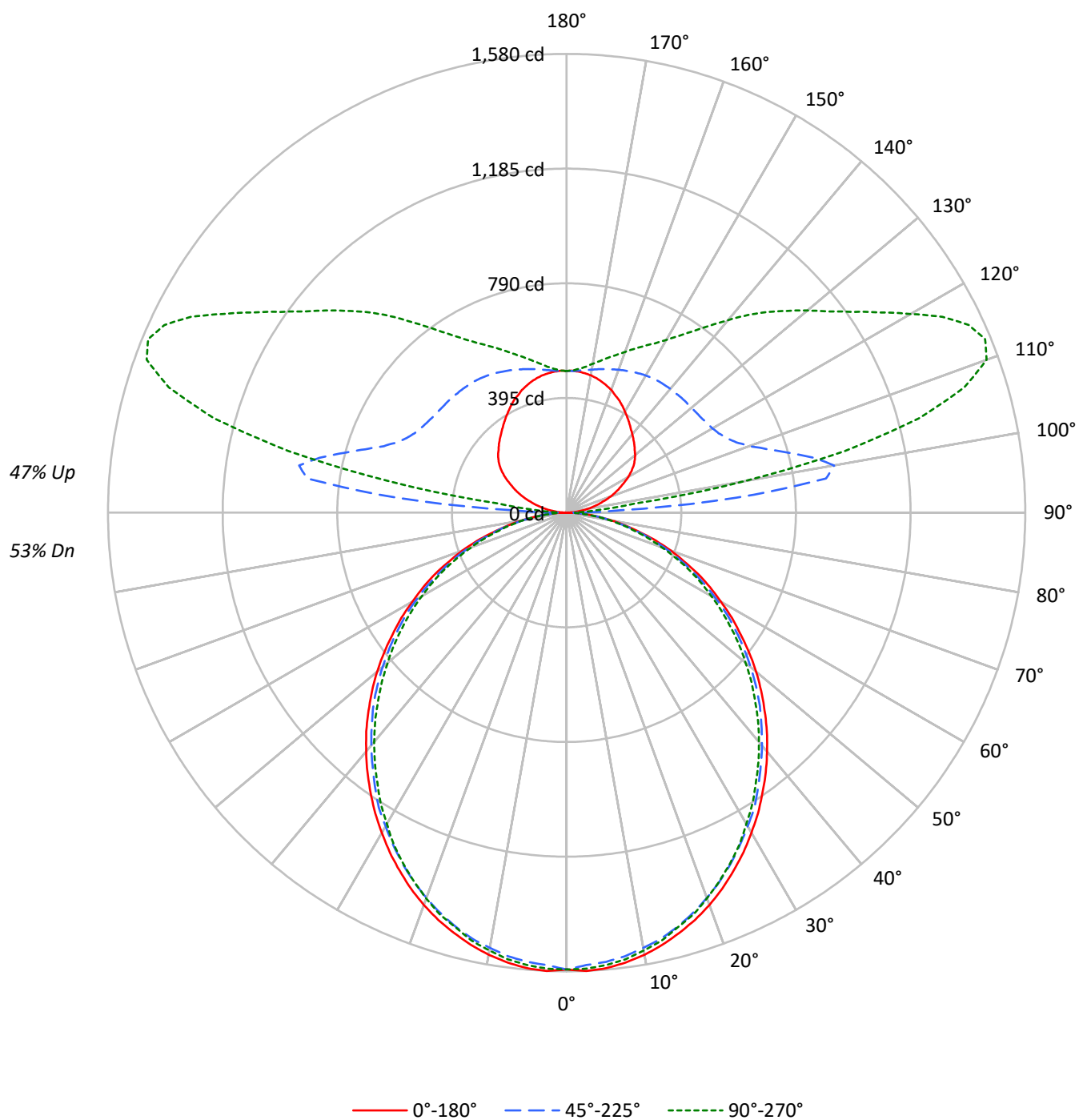
Lumens per Lamp: N/A
Luminaire Lumens: 7778.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	98	94	90	86	91	87	84	81	74	72	70	63	61	59	52	50	49
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	42
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	38	35
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16937	16937	16937
5°	16979	16352	16328
10°	16828	15798	15636
15°	16593	15222	14883
20°	16326	14585	14137
25°	15978	13910	13339
30°	15598	13212	12499
35°	15200	12498	11666
40°	14784	11751	10845
45°	14325	11021	9988
50°	13859	10209	9129
55°	13262	9362	8257
60°	12647	8428	7329
65°	12067	7417	6363
70°	11235	6297	5234
75°	10035	4987	4062
80°	8665	3505	2873
85°	6762	1882	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14325 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.9
10°-20°	418.8	5.4
20°-30°	618.6	8.0
30°-40°	722.5	9.3
40°-50°	726.3	9.3
50°-60°	638.0	8.2
60°-70°	475.2	6.1
70°-80°	270.4	3.5
80°-90°	79.6	1.0
90°-100°	277.4	3.6
100°-110°	775.4	10.0
110°-120°	756.1	9.7
120°-130°	602.1	7.7
130°-140°	475.2	6.1
140°-150°	354.6	4.6
150°-160°	247.4	3.2
160°-170°	145.3	1.9
170°-180°	47.3	0.6
0°-30°	1185.8	15.2
0°-40°	1908.2	24.5
0°-60°	3272.5	42.1
0°-90°	4097.7	52.7
90°-120°	1809.0	23.3
90°-150°	3240.9	41.7
90°-180°	3681.0	47.3
0°-180°	7778.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1575	1568	1553	1567	1564	149
15°	1499	1494	1476	1487	1479	423
25°	1361	1353	1335	1337	1333	627
35°	1177	1169	1151	1143	1136	736
45°	965	959	942	925	919	745
55°	732	731	713	698	691	656
65°	499	492	479	468	464	493
75°	264	258	254	248	244	282
85°	70	68	68	65	65	75
90°	2	12	25	28	29	7
95°	34	109	586	171	115	36
105°	115	170	795	1389	1257	122
115°	203	252	608	1333	1529	201
125°	282	332	567	1028	1206	250
135°	330	394	559	846	977	255
145°	376	431	552	694	764	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.5	1573.5	1573.5	1573.5	1573.5
2.5°	1580.2	1574.8	1559.9	1573.5	1572.1
5°	1574.8	1568.0	1553.2	1566.7	1564.0
7.5°	1562.6	1555.9	1541.0	1553.2	1551.8
10°	1546.4	1539.6	1522.0	1534.2	1531.5
12.5°	1524.7	1519.3	1503.1	1511.2	1509.9
15°	1499.0	1493.6	1476.0	1486.9	1478.7
17.5°	1470.6	1463.9	1446.3	1454.4	1451.7
20°	1438.2	1430.0	1412.5	1417.9	1413.8
22.5°	1401.6	1393.5	1375.9	1380.0	1374.6
25°	1361.0	1352.9	1335.3	1336.7	1332.6
27.5°	1319.1	1311.0	1292.0	1293.4	1289.3
30°	1273.1	1266.3	1247.4	1247.4	1237.9
32.5°	1227.1	1217.6	1204.1	1194.6	1190.6
35°	1177.0	1168.9	1151.3	1143.2	1136.5
37.5°	1127.0	1116.2	1098.6	1089.1	1085.0
40°	1074.2	1066.1	1047.2	1036.3	1030.9
42.5°	1021.5	1012.0	993.0	982.2	976.8
45°	964.6	959.2	941.6	925.4	918.6
47.5°	909.2	901.0	884.8	868.6	863.2
50°	852.3	845.6	828.0	813.1	805.0
52.5°	792.8	788.8	769.8	757.6	749.5
55°	731.9	730.6	713.0	698.1	691.3
57.5°	675.1	669.7	656.2	642.6	634.5
60°	612.9	611.5	595.3	583.1	576.3
62.5°	557.4	553.3	537.1	524.9	520.9
65°	499.2	492.5	478.9	468.1	464.1
67.5°	437.0	431.6	420.8	411.3	405.9
70°	381.5	373.4	365.3	355.8	349.1
72.5°	323.3	317.9	308.5	300.3	297.6
75°	263.8	258.4	254.4	247.6	243.5
77.5°	211.1	208.4	202.9	197.5	197.5
80°	159.6	155.6	152.9	151.5	151.5
82.5°	109.6	109.6	109.6	106.9	105.5
85°	70.4	67.6	67.6	64.9	64.9
87.5°	35.2	31.1	29.8	28.4	28.4
90°	2.0	11.9	24.7	27.7	28.7
92.5°	14.8	59.3	183.8	62.8	52.4
95°	33.6	109.2	586.0	171.0	114.6
97.5°	53.4	125.0	901.3	429.9	235.2
100°	73.1	137.8	935.9	899.4	619.6
102.5°	93.9	152.7	871.6	1204.2	981.3
105°	114.6	169.5	794.6	1389.4	1257.1
107.5°	136.4	189.2	726.4	1471.1	1436.9
110°	160.1	209.5	670.0	1473.5	1539.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.8	230.8	632.5	1417.6	1560.5
115°	202.6	252.5	607.8	1332.6	1528.8
117.5°	223.3	273.2	591.0	1241.8	1459.7
120°	245.1	294.0	580.1	1155.8	1368.7
122.5°	263.9	313.8	573.2	1088.0	1283.8
125°	281.7	332.5	567.3	1027.8	1205.7
127.5°	295.5	350.4	564.3	978.4	1138.5
130°	308.3	366.2	561.3	932.9	1083.1
132.5°	318.2	380.5	560.3	890.4	1028.8
135°	330.1	393.8	559.4	846.4	977.4
137.5°	341.0	404.6	557.4	804.9	923.0
140°	351.8	414.6	556.4	764.4	865.7
142.5°	363.7	423.4	554.4	727.4	812.4
145°	376.5	431.4	552.4	694.2	763.9
147.5°	389.4	439.8	549.5	668.6	722.4
150°	402.2	446.7	545.5	645.8	686.8
152.5°	415.1	454.1	540.6	626.1	657.2
155°	427.9	461.5	534.6	607.8	633.5
157.5°	437.8	468.0	529.7	590.0	610.7
160°	449.7	473.4	523.8	573.7	589.0
162.5°	458.6	477.4	517.8	558.3	569.2
165°	467.4	480.8	511.9	543.0	552.4
167.5°	474.4	483.8	506.0	529.7	535.6
170°	480.3	485.2	500.1	517.8	520.8
172.5°	484.2	486.7	495.1	507.5	507.0
175°	487.2	487.7	491.2	498.1	497.1
177.5°	489.2	488.2	488.2	492.2	490.2
180°	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)