

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: P1011081

Luminaire Tested: S123DIP-B1000D1195UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011081
REPORT IS A COMBINATION OF REPORTS P989111 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB30-4F0-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

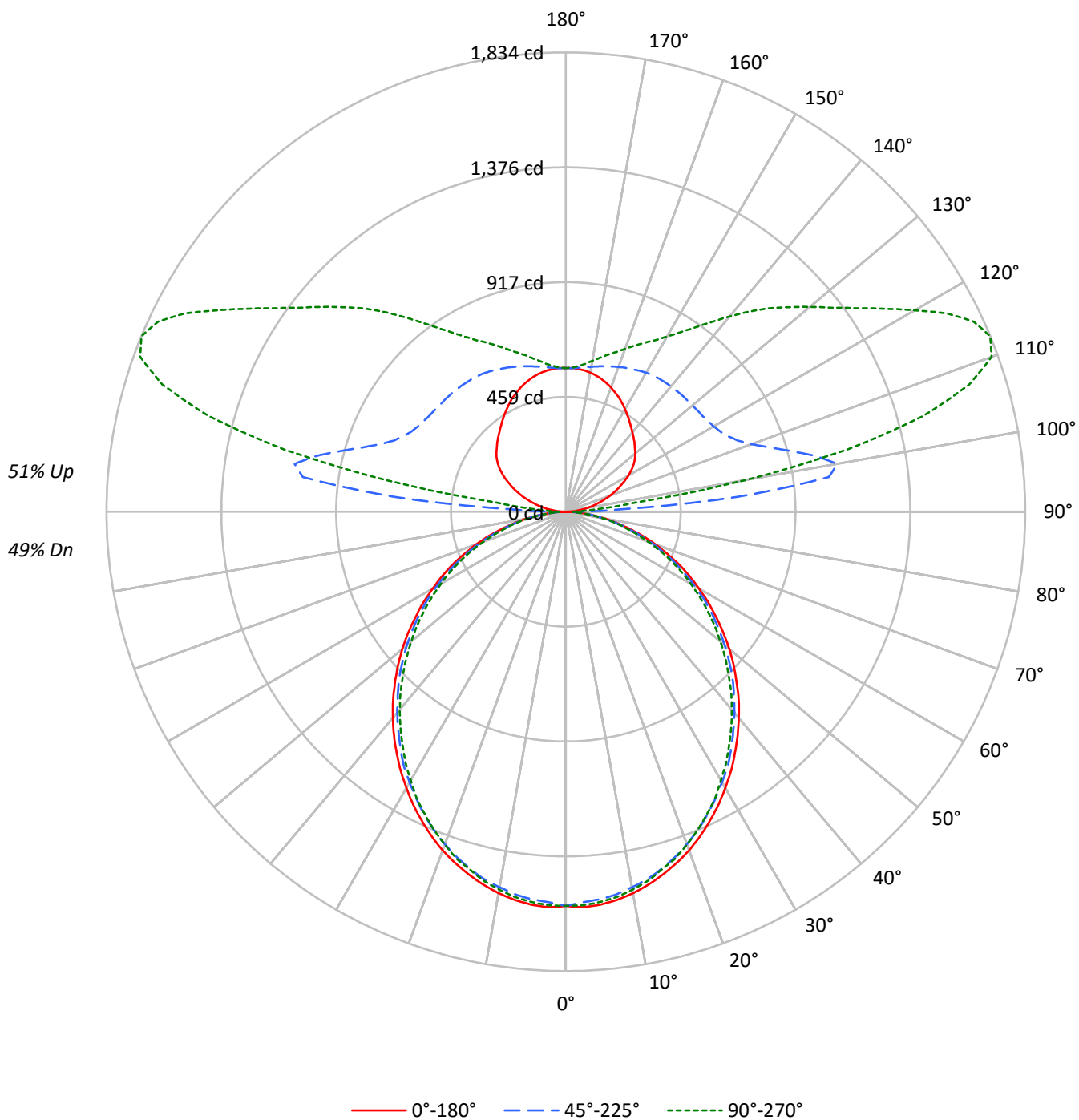
Lumens per Lamp: N/A
Luminaire Lumens: 8423.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	79	72	70	68	60	58	57	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

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	1.8
10°-20°	418.8	5.0
20°-30°	618.6	7.3
30°-40°	722.5	8.6
40°-50°	726.3	8.6
50°-60°	638.0	7.6
60°-70°	475.2	5.6
70°-80°	270.4	3.2
80°-90°	80.1	1.0
90°-100°	326.0	3.9
100°-110°	911.1	10.8
110°-120°	888.4	10.5
120°-130°	707.4	8.4
130°-140°	558.4	6.6
140°-150°	416.6	4.9
150°-160°	290.6	3.5
160°-170°	170.7	2.0
170°-180°	55.5	0.7
0°-30°	1185.8	14.1
0°-40°	1908.2	22.7
0°-60°	3272.5	38.9
0°-90°	4098.2	48.7
90°-120°	2125.5	25.2
90°-150°	3807.9	45.2
90°-180°	4325.0	51.3
0°-180°	8423.0	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	14	29	33	34	8
95°	40	128	689	201	135	42
105°	135	199	934	1633	1477	143
115°	238	297	714	1566	1796	236
125°	331	391	666	1208	1417	294
135°	388	463	657	995	1148	300
145°	442	507	649	816	898	277
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

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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°	2.3	14.0	29.0	32.6	33.7
92.5°	17.4	69.6	216.0	73.8	61.5
95°	39.5	128.4	688.6	200.9	134.7
97.5°	62.7	146.9	1059.0	505.1	276.4
100°	85.9	162.0	1099.6	1056.6	728.1
102.5°	110.3	179.4	1024.2	1414.9	1153.0
105°	134.7	199.1	933.6	1632.6	1477.0
107.5°	160.2	222.4	853.5	1728.4	1688.3
110°	188.1	246.2	787.3	1731.4	1809.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.7	271.2	743.2	1665.7	1833.5
115°	238.0	296.7	714.1	1565.8	1796.3
117.5°	262.4	321.0	694.4	1459.0	1715.1
120°	288.0	345.4	681.6	1358.0	1608.2
122.5°	310.0	368.6	673.5	1278.4	1508.4
125°	330.9	390.8	666.5	1207.6	1416.6
127.5°	347.2	411.6	663.0	1149.6	1337.7
130°	362.3	430.2	659.5	1096.2	1272.6
132.5°	373.9	447.0	658.4	1046.2	1208.8
135°	387.8	462.8	657.2	994.6	1148.4
137.5°	400.6	475.5	654.9	945.8	1084.5
140°	413.4	487.1	653.7	898.2	1017.2
142.5°	427.3	497.6	651.4	854.6	954.5
145°	442.4	506.8	649.1	815.8	897.6
147.5°	457.5	516.7	645.6	785.5	848.8
150°	472.6	524.8	641.0	758.8	807.0
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)