

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: P1011072

Luminaire Tested: S123DIP-B1000D1195UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011072
REPORT IS A COMBINATION OF REPORTS P989087 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

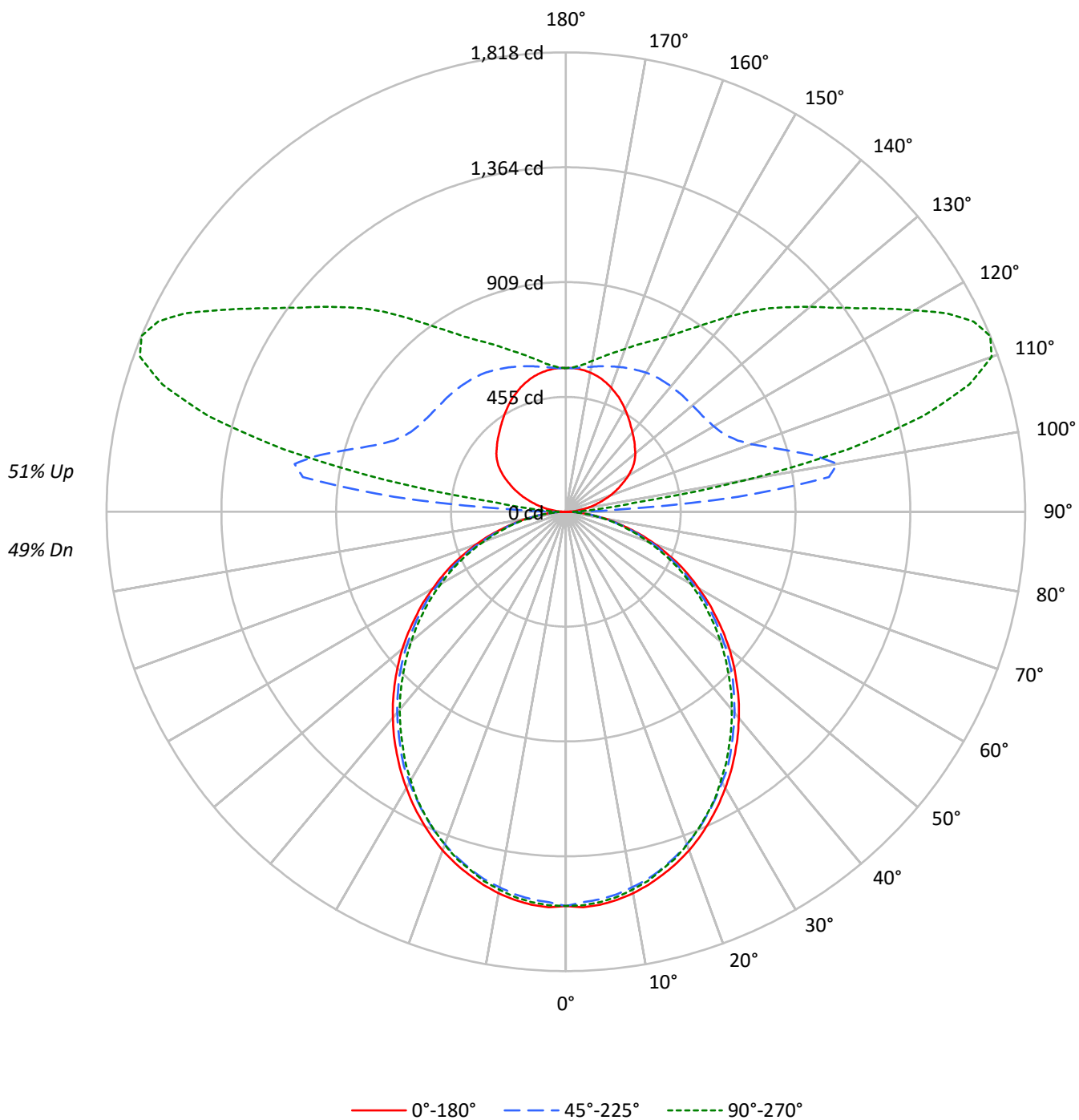
Lumens per Lamp: N/A
Luminaire Lumens: 8351.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	16792	16792	16792
5°	16833	16212	16188
10°	16684	15663	15503
15°	16451	15092	14756
20°	16186	14460	14016
25°	15842	13791	13225
30°	15465	13098	12392
35°	15071	12392	11566
40°	14657	11650	10753
45°	14204	10928	9903
50°	13742	10122	9050
55°	13149	9282	8186
60°	12537	8356	7267
65°	11966	7354	6308
70°	11140	6244	5189
75°	9951	4944	4027
80°	8594	3475	2849
85°	6705	1869	1427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.8
10°-20°	415.3	5.0
20°-30°	613.3	7.3
30°-40°	716.3	8.6
40°-50°	720.1	8.6
50°-60°	632.6	7.6
60°-70°	471.1	5.6
70°-80°	268.1	3.2
80°-90°	79.4	1.0
90°-100°	323.2	3.9
100°-110°	903.3	10.8
110°-120°	880.8	10.5
120°-130°	701.4	8.4
130°-140°	553.6	6.6
140°-150°	413.0	4.9
150°-160°	288.1	3.5
160°-170°	169.3	2.0
170°-180°	55.1	0.7
0°-30°	1175.6	14.1
0°-40°	1891.9	22.7
0°-60°	3244.6	38.9
0°-90°	4063.2	48.7
90°-120°	2107.3	25.2
90°-150°	3775.3	45.2
90°-180°	4288.0	51.3
0°-180°	8351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1561	1555	1540	1553	1551	148
15°	1486	1481	1463	1474	1466	419
25°	1349	1341	1324	1325	1321	622
35°	1167	1159	1142	1134	1127	730
45°	956	951	934	918	911	738
55°	726	724	707	692	685	650
65°	495	488	475	464	460	488
75°	262	256	252	246	241	279
85°	70	67	67	64	64	75
90°	2	14	29	32	33	8
95°	39	127	683	199	134	41
105°	134	197	926	1619	1464	142
115°	236	294	708	1552	1781	234
125°	328	387	661	1197	1404	291
135°	384	459	652	986	1139	297
145°	439	502	644	809	890	275
155°	498	538	623	708	738	229
165°	544	560	596	633	644	153
175°	568	568	572	580	579	54
180°	569	569	569	569	569	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1566.7	1561.3	1546.6	1560.0	1558.7
5°	1561.3	1554.6	1539.9	1553.3	1550.6
7.5°	1549.3	1542.6	1527.8	1539.9	1538.5
10°	1533.2	1526.5	1509.0	1521.1	1518.4
12.5°	1511.7	1506.3	1490.3	1498.3	1497.0
15°	1486.2	1480.9	1463.4	1474.2	1466.1
17.5°	1458.1	1451.4	1433.9	1442.0	1439.3
20°	1425.9	1417.8	1400.4	1405.7	1401.7
22.5°	1389.7	1381.6	1364.2	1368.2	1362.8
25°	1349.4	1341.4	1323.9	1325.3	1321.2
27.5°	1307.8	1299.8	1281.0	1282.3	1278.3
30°	1262.2	1255.5	1236.7	1236.7	1227.3
32.5°	1216.6	1207.2	1193.8	1184.4	1180.4
35°	1167.0	1158.9	1141.5	1133.5	1126.7
37.5°	1117.4	1106.6	1089.2	1079.8	1075.8
40°	1065.0	1057.0	1038.2	1027.5	1022.1
42.5°	1012.7	1003.3	984.6	973.8	968.5
45°	956.4	951.0	933.6	917.5	910.8
47.5°	901.4	893.3	877.3	861.2	855.8
50°	845.1	838.4	820.9	806.2	798.1
52.5°	786.0	782.0	763.2	751.2	743.1
55°	725.7	724.3	706.9	692.1	685.4
57.5°	669.3	664.0	650.6	637.1	629.1
60°	607.6	606.3	590.2	578.1	571.4
62.5°	552.6	548.6	532.5	520.4	516.4
65°	495.0	488.3	474.8	464.1	460.1
67.5°	433.3	427.9	417.2	407.8	402.4
70°	378.3	370.2	362.2	352.8	346.1
72.5°	320.6	315.2	305.8	297.8	295.1
75°	261.6	256.2	252.2	245.5	241.4
77.5°	209.3	206.6	201.2	195.8	195.8
80°	158.3	154.3	151.6	150.2	150.2
82.5°	108.7	108.7	108.7	106.0	104.6
85°	69.8	67.1	67.1	64.4	64.4
87.5°	34.9	30.9	29.5	28.2	28.2
90°	2.3	13.8	28.8	32.2	33.4
92.5°	17.3	69.1	214.1	73.1	61.0
95°	39.1	127.2	682.7	199.2	133.5
97.5°	62.2	145.6	1049.9	500.8	274.0
100°	85.2	160.6	1090.2	1047.6	721.8
102.5°	109.4	177.8	1015.4	1402.8	1143.2
105°	133.5	197.4	925.6	1618.6	1464.4
107.5°	158.9	220.5	846.1	1713.6	1673.9
110°	186.5	244.0	780.5	1716.5	1793.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	268.8	736.8	1651.4	1817.8
115°	236.0	294.2	708.0	1552.4	1780.9
117.5°	260.2	318.3	688.4	1446.6	1700.4
120°	285.5	342.5	675.8	1346.4	1594.4
122.5°	307.4	365.6	667.7	1267.5	1495.4
125°	328.1	387.4	660.8	1197.2	1404.5
127.5°	344.2	408.2	657.3	1139.7	1326.2
130°	359.2	426.6	653.9	1086.8	1261.7
132.5°	370.7	443.2	652.7	1037.2	1198.4
135°	384.5	458.8	651.6	986.0	1138.6
137.5°	397.2	471.4	649.3	937.6	1075.2
140°	409.8	482.9	648.1	890.4	1008.5
142.5°	423.7	493.3	645.8	847.3	946.3
145°	438.6	502.5	643.5	808.7	889.9
147.5°	453.6	512.3	640.1	778.8	841.5
150°	468.5	520.4	635.5	752.3	800.1
152.5°	483.5	529.0	629.7	729.3	765.6
155°	498.5	537.7	622.8	708.0	737.9
157.5°	510.0	545.1	617.1	687.2	711.5
160°	523.8	551.4	610.1	668.3	686.1
162.5°	534.2	556.0	603.2	650.4	663.1
165°	544.5	560.0	596.3	632.6	643.5
167.5°	552.6	563.5	589.4	617.1	624.0
170°	559.5	565.2	582.5	603.2	606.7
172.5°	564.1	567.0	576.8	591.2	590.6
175°	567.6	568.2	572.2	580.2	579.1
177.5°	569.9	568.7	568.7	573.3	571.0
180°	568.7	568.7	568.7	568.7	568.7

(END OF REPORT)