

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: P1011289

Luminaire Tested: S123DIP-B1165D1195UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011289
REPORT IS A COMBINATION OF REPORTS P989385 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

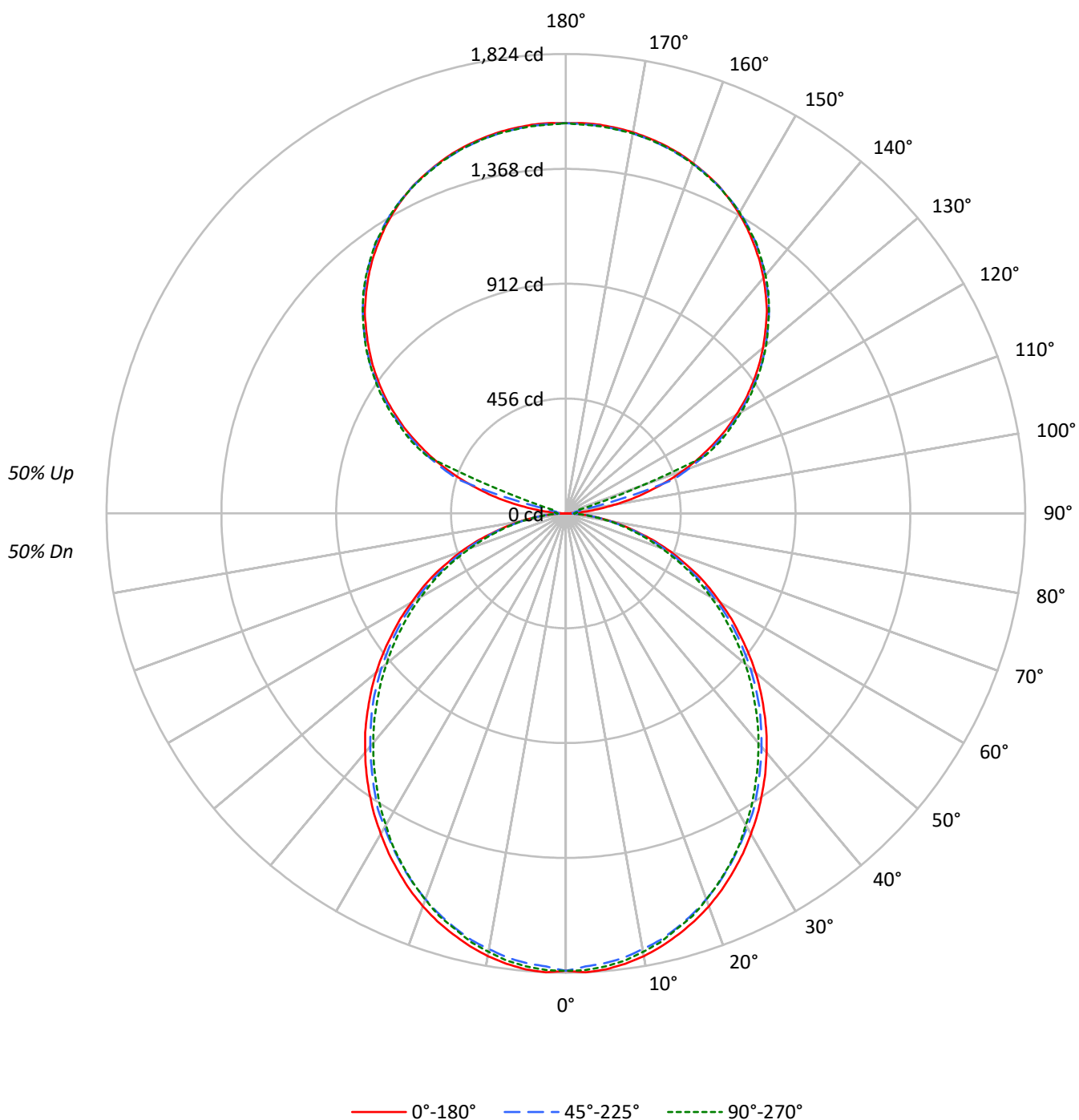
Lumens per Lamp: N/A
Luminaire Lumens: 9453.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	57	50	48	47	47	47	42
2	89	82	75	70	82	75	70	65	64	60	57	53	50	48	44	42	40	40	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	34	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	32	29	29	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	25	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	22	22	19
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20	20	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	18	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	16	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19550	19550	19550
5°	19600	18876	18848
10°	19425	18237	18050
15°	19155	17572	17181
20°	18845	16834	16318
25°	18444	16057	15398
30°	18006	15251	14429
35°	17547	14428	13467
40°	17066	13565	12519
45°	16537	12723	11530
50°	15999	11785	10537
55°	15309	10807	9531
60°	14599	9730	8461
65°	13931	8563	7344
70°	12969	7269	6041
75°	11583	5755	4690
80°	10006	4046	3317
85°	7800	2175	1662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.8
10°-20°	483.5	5.1
20°-30°	714.1	7.6
30°-40°	834.0	8.8
40°-50°	838.4	8.9
50°-60°	736.5	7.8
60°-70°	548.5	5.8
70°-80°	312.1	3.3
80°-90°	91.8	1.0
90°-100°	54.6	0.6
100°-110°	264.1	2.8
110°-120°	647.3	6.8
120°-130°	821.7	8.7
130°-140°	877.8	9.3
140°-150°	820.8	8.7
150°-160°	662.1	7.0
160°-170°	427.3	4.5
170°-180°	147.2	1.6
0°-30°	1368.8	14.5
0°-40°	2202.7	23.3
0°-60°	3777.6	40.0
0°-90°	4730.1	50.0
90°-120°	966.0	10.2
90°-150°	3486.3	36.9
90°-180°	4723.0	50.0
0°-180°	9453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1818	1810	1793	1808	1805	172
15°	1730	1724	1704	1716	1707	488
25°	1571	1562	1541	1543	1538	724
35°	1359	1349	1329	1320	1312	850
45°	1114	1107	1087	1068	1060	860
55°	845	843	823	806	798	757
65°	576	568	553	540	536	569
75°	304	298	294	286	281	325
85°	81	78	78	75	75	87
90°	1	13	28	32	34	10
95°	70	23	36	44	44	84
105°	343	356	252	48	51	364
115°	643	650	661	672	677	635
125°	907	916	921	923	925	810
135°	1129	1136	1141	1144	1141	869
145°	1303	1311	1313	1316	1316	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1824.1	1817.9	1800.7	1816.3	1814.7
5°	1817.9	1810.0	1792.9	1808.5	1805.4
7.5°	1803.8	1796.0	1778.8	1792.9	1791.3
10°	1785.1	1777.2	1756.9	1771.0	1767.9
12.5°	1760.1	1753.8	1735.1	1744.5	1742.9
15°	1730.4	1724.1	1703.8	1716.3	1707.0
17.5°	1697.6	1689.8	1669.5	1678.9	1675.7
20°	1660.1	1650.7	1630.4	1636.7	1632.0
22.5°	1618.0	1608.6	1588.3	1593.0	1586.7
25°	1571.1	1561.7	1541.4	1543.0	1538.3
27.5°	1522.7	1513.3	1491.5	1493.0	1488.3
30°	1469.6	1461.8	1439.9	1439.9	1429.0
32.5°	1416.5	1405.6	1389.9	1379.0	1374.3
35°	1358.7	1349.3	1329.0	1319.7	1311.9
37.5°	1300.9	1288.4	1268.1	1257.2	1252.5
40°	1240.0	1230.6	1208.8	1196.3	1190.0
42.5°	1179.1	1168.2	1146.3	1133.8	1127.6
45°	1113.5	1107.3	1087.0	1068.2	1060.4
47.5°	1049.5	1040.1	1021.4	1002.6	996.4
50°	983.9	976.1	955.8	938.6	929.2
52.5°	915.2	910.5	888.6	874.6	865.2
55°	844.9	843.3	823.0	805.9	798.0
57.5°	779.3	773.1	757.4	741.8	732.5
60°	707.5	705.9	687.2	673.1	665.3
62.5°	643.4	638.7	620.0	606.0	601.3
65°	576.3	568.5	552.9	540.4	535.7
67.5°	504.4	498.2	485.7	474.8	468.5
70°	440.4	431.0	421.7	410.7	402.9
72.5°	373.3	367.0	356.1	346.7	343.6
75°	304.5	298.3	293.6	285.8	281.1
77.5°	243.6	240.5	234.3	228.0	228.0
80°	184.3	179.6	176.5	174.9	174.9
82.5°	126.5	126.5	126.5	123.4	121.8
85°	81.2	78.1	78.1	75.0	75.0
87.5°	40.6	35.9	34.4	32.8	32.8
90°	1.2	12.7	27.6	32.2	34.5
92.5°	26.5	19.6	29.9	38.0	39.1
95°	70.2	23.0	35.7	43.7	43.7
97.5°	127.8	95.5	36.8	46.0	47.2
100°	194.5	217.5	38.0	47.2	48.3
102.5°	270.5	285.4	85.2	47.2	49.5
105°	343.0	355.7	252.1	48.3	50.6
107.5°	420.1	430.5	447.7	270.5	119.7
110°	497.2	506.4	519.1	481.1	316.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	570.9	578.9	591.6	602.0	599.7
115°	643.4	650.3	660.7	672.2	676.8
117.5°	714.8	722.8	728.6	737.8	738.9
120°	780.4	790.7	794.2	803.4	803.4
122.5°	847.1	855.2	859.8	865.5	866.7
125°	907.0	916.2	920.8	923.1	925.4
127.5°	966.8	976.0	981.8	985.2	982.9
130°	1022.1	1031.3	1035.9	1040.5	1038.2
132.5°	1075.0	1084.2	1087.7	1092.3	1088.8
135°	1129.1	1136.0	1140.6	1144.1	1140.6
137.5°	1175.1	1184.4	1186.7	1192.4	1190.1
140°	1221.2	1228.1	1231.5	1236.1	1233.8
142.5°	1263.8	1270.7	1274.1	1277.6	1274.1
145°	1302.9	1311.0	1313.3	1315.6	1315.6
147.5°	1340.9	1346.6	1348.9	1351.2	1345.5
150°	1375.4	1378.9	1381.2	1383.5	1380.0
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)