

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: P1025078

Luminaire Tested: S124DIP-B1195D1205UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025078
REPORT IS A COMBINATION OF REPORTS P995483 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB27-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

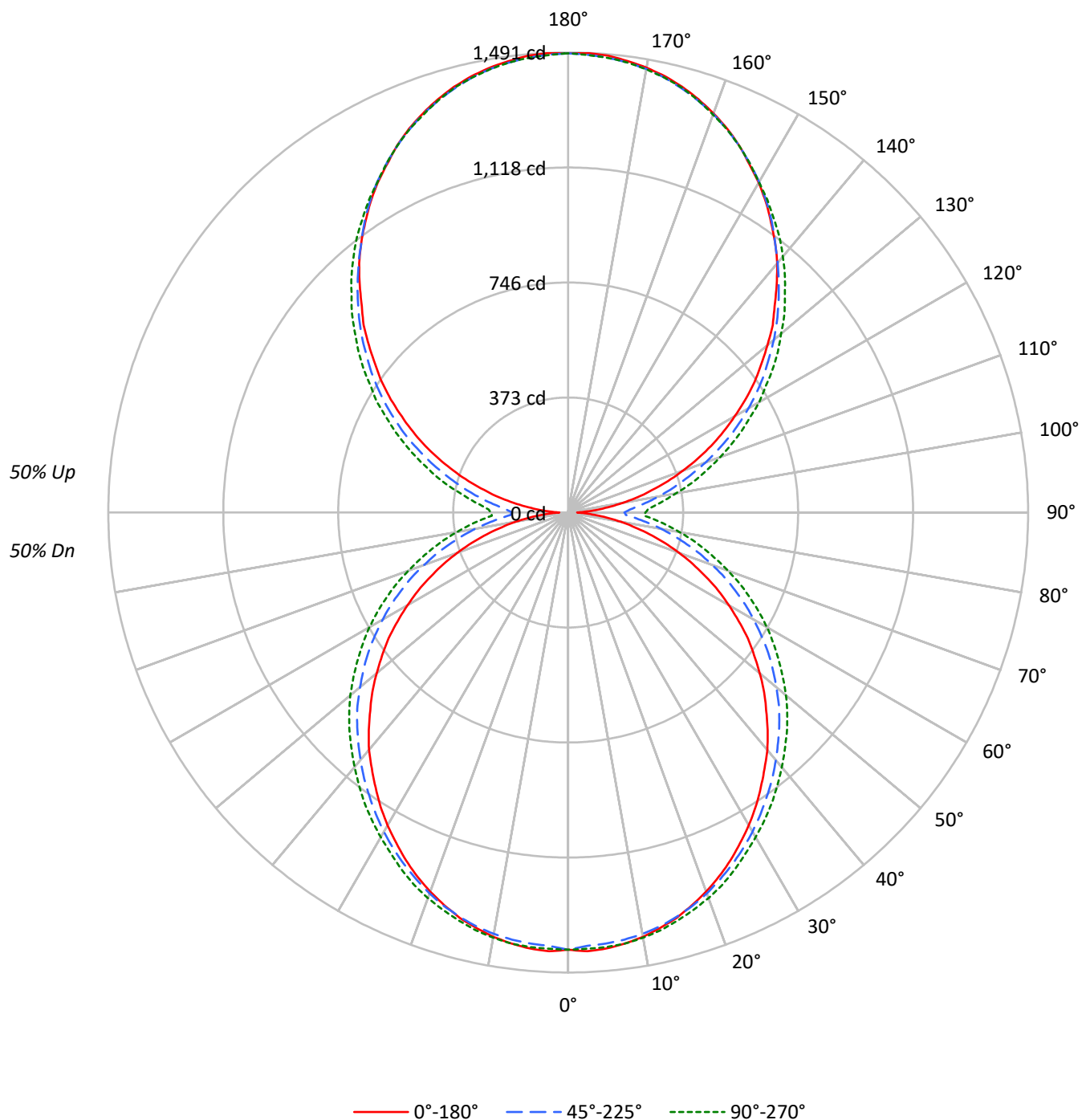
Lumens per Lamp: N/A
Luminaire Lumens: 8964.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56
1	97	92	88	84	89	85	81	78	71	69	66		59	57	55		48
2	88	80	73	68	80	74	68	63	62	58	54		51	48	45		42
3	80	70	62	56	73	64	58	52	54	49	45		45	41	38		36
4	73	61	53	47	67	57	50	44	48	42	38		40	36	32		32
5	67	55	46	40	61	51	43	37	43	37	33		36	31	28		29
6	61	49	40	34	56	45	38	32	38	33	28		32	28	24		26
7	57	44	36	30	52	41	33	28	35	29	25		29	25	21		24
8	52	40	32	26	48	37	30	25	32	26	22		27	22	19		22
9	49	36	29	24	45	34	27	22	29	23	20		24	20	17		20
10	46	33	26	21	42	31	24	20	27	21	18		23	18	15		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11555	11555	11555
5°	11586	11254	11274
10°	11511	11032	11000
15°	11403	10783	10692
20°	11244	10513	10393
25°	11064	10216	10070
30°	10869	9922	9740
35°	10649	9621	9447
40°	10472	9331	9144
45°	10211	9060	8875
50°	9988	8752	8592
55°	9758	8456	8266
60°	9401	8086	7959
65°	9008	7688	7590
70°	8531	7233	7163
75°	7864	6726	6757
80°	7115	6210	6331
85°	6120	5691	5986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.5
10°-20°	384.7	4.3
20°-30°	581.6	6.5
30°-40°	703.7	7.8
40°-50°	743.9	8.3
50°-60°	700.1	7.8
60°-70°	581.0	6.5
70°-80°	407.7	4.5
80°-90°	233.0	2.6
90°-100°	233.8	2.6
100°-110°	391.9	4.4
110°-120°	561.6	6.3
120°-130°	689.4	7.7
130°-140°	747.8	8.3
140°-150°	722.0	8.1
150°-160°	604.5	6.7
160°-170°	402.2	4.5
170°-180°	140.8	1.6
0°-30°	1100.6	12.3
0°-40°	1804.2	20.1
0°-60°	3248.2	36.2
0°-90°	4469.9	49.9
90°-120°	1187.4	13.2
90°-150°	3346.6	37.3
90°-180°	4494.0	50.1
0°-180°	8964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1418	1414	1403	1415	1414	135
15°	1360	1361	1357	1371	1369	383
25°	1244	1254	1258	1276	1277	573
35°	1088	1108	1123	1146	1150	682
45°	908	938	968	995	1003	701
55°	711	744	792	824	833	633
65°	492	543	597	636	649	488
75°	273	332	398	443	457	290
85°	84	151	222	270	286	88
90°	29	105	182	235	250	22
95°	90	152	226	272	286	91
105°	282	315	379	422	438	301
115°	511	526	574	608	618	505
125°	737	736	774	802	809	658
135°	946	953	964	987	993	732
145°	1147	1150	1151	1160	1162	718
155°	1312	1312	1311	1316	1311	604
165°	1429	1425	1423	1430	1425	403
175°	1486	1480	1479	1487	1479	141
180°	1488	1488	1488	1488	1488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1423.3	1418.5	1405.9	1417.0	1415.4
5°	1418.5	1413.8	1402.7	1415.4	1413.8
7.5°	1409.0	1405.9	1396.3	1410.6	1409.0
10°	1396.3	1394.7	1386.8	1401.1	1399.5
12.5°	1378.9	1378.9	1374.1	1386.8	1386.8
15°	1359.8	1361.4	1356.7	1370.9	1369.4
17.5°	1334.5	1339.2	1337.6	1351.9	1350.3
20°	1307.5	1312.2	1313.8	1329.7	1329.7
22.5°	1277.3	1283.7	1286.8	1302.7	1305.9
25°	1244.0	1253.5	1258.3	1275.7	1277.3
27.5°	1207.5	1221.8	1228.1	1244.0	1245.6
30°	1171.0	1183.7	1194.8	1212.3	1215.4
32.5°	1131.3	1147.2	1159.9	1180.5	1183.7
35°	1088.5	1107.5	1123.4	1145.6	1150.4
37.5°	1045.7	1067.9	1086.9	1109.1	1113.9
40°	1004.4	1025.0	1047.2	1071.1	1077.4
42.5°	956.8	980.6	1007.6	1034.6	1039.3
45°	907.6	937.8	967.9	994.9	1002.8
47.5°	861.6	891.7	926.7	953.6	963.2
50°	810.8	845.7	880.6	912.4	921.9
52.5°	760.0	795.0	836.2	867.9	877.5
55°	710.9	744.2	791.8	823.5	833.0
57.5°	655.3	696.6	742.6	780.7	788.6
60°	601.4	642.6	695.0	731.5	744.2
62.5°	549.0	595.0	647.4	683.9	696.6
65°	491.9	542.7	596.6	636.3	649.0
67.5°	437.9	491.9	549.0	588.7	601.4
70°	382.4	436.4	496.7	539.5	550.6
72.5°	328.5	384.0	449.0	490.3	503.0
75°	272.9	331.6	398.3	442.7	457.0
77.5°	220.6	282.4	352.3	396.7	412.6
80°	173.0	236.4	306.2	353.8	366.5
82.5°	125.4	192.0	261.8	311.0	325.3
85°	84.1	150.7	222.1	269.7	285.6
87.5°	52.4	117.4	187.2	233.3	247.5
90°	28.9	105.0	182.4	235.3	250.3
92.5°	53.7	124.2	198.3	246.1	260.0
95°	89.7	152.4	225.5	271.8	286.1
97.5°	129.5	184.8	259.0	304.9	319.1
100°	178.7	224.5	296.7	341.8	352.9
102.5°	231.6	267.7	337.2	381.8	395.7
105°	282.5	315.4	378.7	421.8	438.0
107.5°	338.9	367.1	423.7	468.0	478.0
110°	394.9	419.4	473.7	507.9	524.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	453.1	472.1	522.2	557.1	569.8
115°	511.4	525.7	574.2	607.9	617.9
117.5°	567.8	577.3	623.8	653.7	662.9
120°	622.6	632.0	674.6	700.5	715.5
122.5°	681.3	682.5	724.2	752.5	757.8
125°	737.3	735.8	774.2	802.1	809.3
127.5°	789.1	791.0	820.4	846.7	856.7
130°	842.8	844.7	870.1	896.3	901.2
132.5°	899.2	899.9	917.8	942.5	950.8
135°	946.0	952.9	964.0	987.1	993.1
137.5°	1000.1	1001.9	1010.5	1030.9	1040.0
140°	1054.2	1054.9	1056.5	1075.9	1082.7
142.5°	1102.1	1104.4	1101.6	1119.1	1125.4
145°	1147.0	1150.0	1151.1	1159.5	1162.4
147.5°	1193.0	1197.2	1196.0	1196.5	1201.6
150°	1234.5	1237.5	1237.5	1237.5	1236.3
152.5°	1272.0	1274.3	1275.5	1278.9	1275.5
155°	1312.3	1312.3	1311.1	1315.7	1311.1
157.5°	1346.8	1344.5	1344.5	1348.0	1344.5
160°	1376.8	1375.6	1374.5	1377.9	1372.2
162.5°	1404.4	1400.9	1399.8	1406.7	1400.9
165°	1428.6	1425.1	1422.8	1429.7	1425.1
167.5°	1448.1	1443.5	1443.5	1450.4	1443.5
170°	1464.2	1458.5	1459.6	1466.5	1458.5
172.5°	1475.8	1471.2	1471.2	1479.2	1471.2
175°	1486.1	1480.4	1479.2	1487.3	1479.2
177.5°	1490.7	1485.0	1485.0	1493.0	1483.8
180°	1488.4	1488.4	1488.4	1488.4	1488.4

(END OF REPORT)