

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: P1012923

Luminaire Tested: S124DIP-B1195D1035UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012923
REPORT IS A COMBINATION OF REPORTS P995435 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1035UB2750-4F0-XX-W2A-D_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

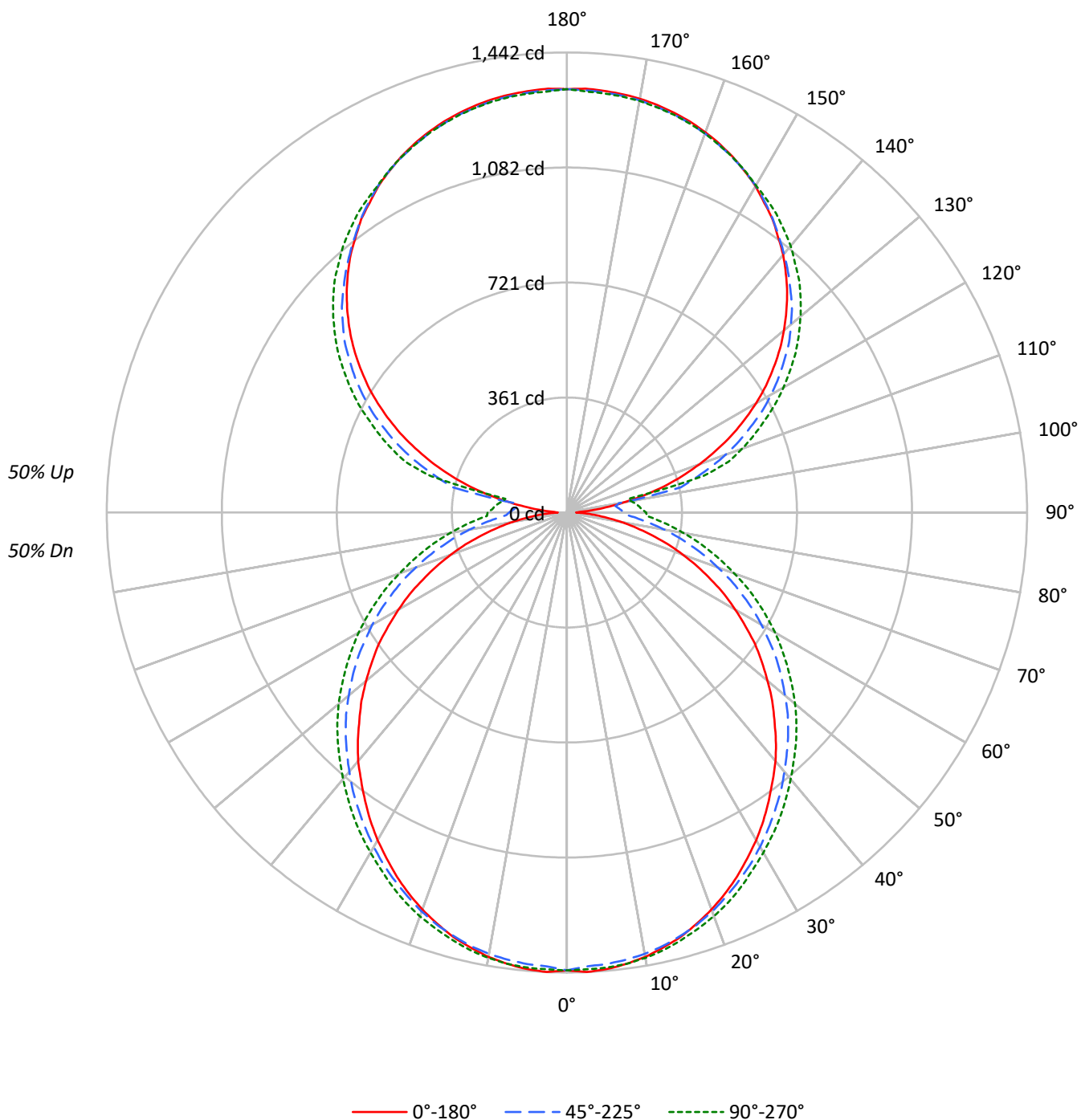
Lumens per Lamp: N/A
Luminaire Lumens: 9002.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	58	56	48	47	46
2	88	80	73	68	81	74	68	63	62	58	54	52	48	46	42	40	38
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	32
4	73	62	53	47	67	57	50	44	48	43	38	40	36	32	33	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	34	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11702	11702	11702
5°	11735	11398	11418
10°	11659	11173	11142
15°	11550	10922	10829
20°	11388	10649	10526
25°	11206	10347	10199
30°	11008	10049	9865
35°	10786	9744	9569
40°	10607	9452	9261
45°	10343	9176	8989
50°	10116	8864	8702
55°	9883	8564	8372
60°	9521	8190	8061
65°	9124	7787	7687
70°	8641	7325	7256
75°	7965	6812	6843
80°	7206	6291	6412
85°	6200	5766	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	389.6	4.3
20°-30°	589.1	6.5
30°-40°	712.7	7.9
40°-50°	753.4	8.4
50°-60°	709.1	7.9
60°-70°	588.4	6.5
70°-80°	412.9	4.6
80°-90°	235.5	2.6
90°-100°	182.6	2.0
100°-110°	392.7	4.4
110°-120°	622.8	6.9
120°-130°	742.0	8.2
130°-140°	769.1	8.5
140°-150°	706.8	7.9
150°-160°	567.3	6.3
160°-170°	365.8	4.1
170°-180°	126.1	1.4
0°-30°	1114.7	12.4
0°-40°	1827.4	20.3
0°-60°	3289.9	36.5
0°-90°	4526.8	50.3
90°-120°	1198.2	13.3
90°-150°	3416.0	37.9
90°-180°	4475.0	49.7
0°-180°	9002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1437	1432	1421	1434	1432	136
15°	1377	1379	1374	1388	1387	388
25°	1260	1270	1274	1292	1294	580
35°	1102	1122	1138	1160	1165	690
45°	919	950	980	1008	1016	710
55°	720	754	802	834	844	642
65°	498	550	604	644	657	494
75°	276	336	403	448	463	294
85°	85	153	225	273	289	89
90°	29	104	181	234	248	20
95°	76	95	162	211	226	84
105°	313	351	416	465	442	329
115°	567	585	635	673	684	559
125°	790	793	831	865	875	706
135°	976	975	990	1018	1029	752
145°	1123	1124	1124	1135	1144	702
155°	1230	1231	1228	1232	1229	567
165°	1297	1292	1292	1300	1291	367
175°	1327	1321	1322	1331	1319	126
180°	1327	1327	1327	1327	1327	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1441.6	1436.8	1423.9	1435.1	1433.5
5°	1436.8	1431.9	1420.7	1433.5	1431.9
7.5°	1427.1	1423.9	1414.3	1428.7	1427.1
10°	1414.3	1412.6	1404.6	1419.1	1417.5
12.5°	1396.6	1396.6	1391.8	1404.6	1404.6
15°	1377.3	1378.9	1374.1	1388.5	1386.9
17.5°	1351.6	1356.4	1354.8	1369.3	1367.6
20°	1324.3	1329.1	1330.7	1346.8	1346.8
22.5°	1293.7	1300.1	1303.4	1319.4	1322.6
25°	1260.0	1269.6	1274.4	1292.1	1293.7
27.5°	1223.0	1237.5	1243.9	1260.0	1261.6
30°	1186.0	1198.9	1210.2	1227.8	1231.0
32.5°	1145.9	1161.9	1174.8	1195.7	1198.9
35°	1102.5	1121.8	1137.8	1160.3	1165.2
37.5°	1059.1	1081.6	1100.9	1123.4	1128.2
40°	1017.3	1038.2	1060.7	1084.8	1091.2
42.5°	969.1	993.2	1020.5	1047.8	1052.7
45°	919.3	949.8	980.3	1007.7	1015.7
47.5°	872.7	903.2	938.5	965.9	975.5
50°	821.2	856.6	891.9	924.1	933.7
52.5°	769.8	805.2	846.9	879.1	888.7
55°	720.0	753.7	801.9	834.1	843.7
57.5°	663.7	705.5	752.1	790.7	798.7
60°	609.1	650.9	703.9	740.9	753.7
62.5°	556.1	602.7	655.7	692.7	705.5
65°	498.2	549.6	604.3	644.4	657.3
67.5°	443.6	498.2	556.1	596.2	609.1
70°	387.3	442.0	503.0	546.4	557.7
72.5°	332.7	388.9	454.8	496.6	509.5
75°	276.4	335.9	403.4	448.4	462.8
77.5°	223.4	286.1	356.8	401.8	417.8
80°	175.2	239.5	310.2	358.4	371.2
82.5°	127.0	194.5	265.2	315.0	329.5
85°	85.2	152.7	225.0	273.2	289.3
87.5°	53.0	118.9	189.6	236.2	250.7
90°	28.7	103.9	180.9	233.5	248.4
92.5°	39.0	93.3	170.3	221.3	234.1
95°	75.5	94.7	161.6	211.0	226.5
97.5°	123.5	192.0	153.6	200.4	215.8
100°	180.5	240.1	165.8	192.3	204.6
102.5°	246.0	293.2	366.2	184.7	197.5
105°	313.3	351.3	415.8	464.8	442.0
107.5°	377.8	408.0	471.2	516.4	531.6
110°	441.7	467.2	529.3	568.3	584.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.5	528.8	583.8	618.1	635.0
115°	567.4	584.9	635.3	672.7	683.9
117.5°	626.0	639.6	690.8	723.5	736.4
120°	683.9	692.8	738.4	772.5	783.4
122.5°	739.5	741.5	786.9	820.1	829.3
125°	790.5	792.9	831.1	864.6	875.3
127.5°	841.1	840.5	877.7	905.6	915.8
130°	888.2	887.5	916.2	946.2	955.8
132.5°	932.8	933.2	956.5	984.8	993.5
135°	975.9	974.9	990.2	1017.8	1029.4
137.5°	1015.6	1014.0	1025.3	1051.4	1058.5
140°	1054.3	1054.7	1058.3	1082.1	1091.1
142.5°	1087.4	1091.4	1090.8	1110.5	1116.9
145°	1123.2	1124.5	1124.5	1135.1	1143.6
147.5°	1151.0	1155.3	1154.3	1156.9	1164.3
150°	1181.7	1184.1	1183.1	1183.1	1184.1
152.5°	1205.9	1208.9	1206.9	1208.9	1207.9
155°	1229.7	1230.7	1227.8	1231.7	1228.8
157.5°	1250.6	1250.6	1246.6	1251.6	1246.6
160°	1268.5	1265.5	1264.5	1270.4	1264.5
162.5°	1284.3	1280.4	1279.4	1285.3	1278.4
165°	1297.2	1292.3	1292.3	1300.2	1291.3
167.5°	1308.2	1303.2	1302.2	1311.1	1301.2
170°	1317.1	1311.1	1312.1	1320.1	1310.1
172.5°	1323.0	1317.1	1318.1	1326.0	1315.1
175°	1327.0	1321.1	1322.1	1331.0	1319.1
177.5°	1330.0	1323.0	1325.0	1333.0	1321.1
180°	1327.0	1327.0	1327.0	1327.0	1327.0

(END OF REPORT)