

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: P1025231

Luminaire Tested: S124DIP-B1195D810UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025231
REPORT IS A COMBINATION OF REPORTS P995696 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D810UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

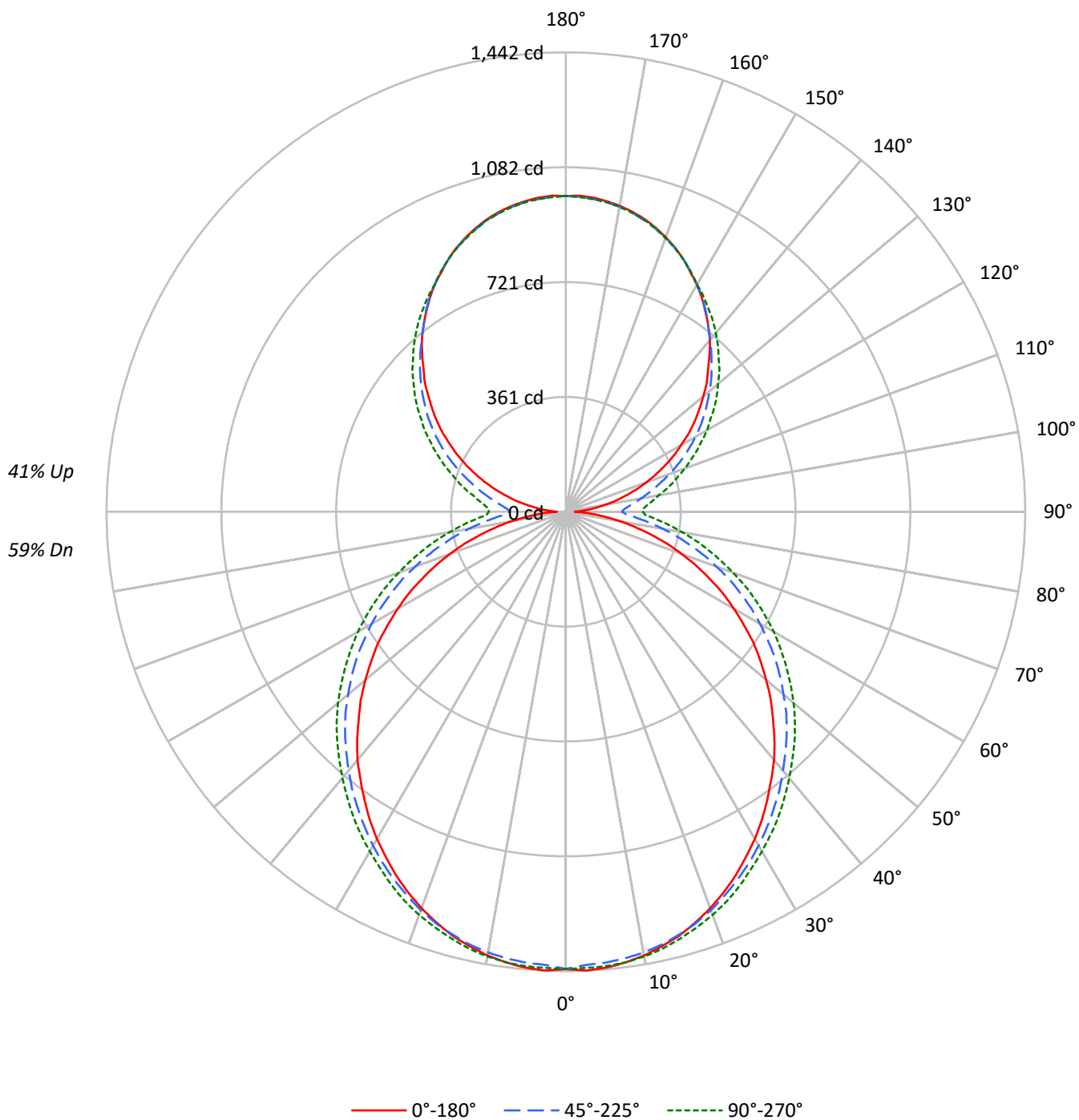
Lumens per Lamp: N/A
Luminaire Lumens: 7646.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	102	102	102	102	88	88	88		76	76	76		65
1	99	94	89	85	92	88	84	80	76	73	70		65	63	61		55
2	89	81	74	69	83	76	70	65	66	61	57		56	53	50		48
3	81	71	63	57	75	66	59	54	58	52	48		49	45	42		42
4	74	63	54	48	69	59	51	45	51	45	40		44	39	35		37
5	68	56	47	41	63	52	44	39	45	39	34		39	34	30		33
6	63	50	41	35	58	47	39	33	41	35	30		35	30	27		30
7	58	45	37	31	54	42	35	29	37	31	26		32	27	23		28
8	54	41	33	27	50	38	31	26	34	28	23		29	24	21		25
9	50	37	29	24	46	35	28	23	31	25	21		27	22	19		23
10	47	34	27	22	43	32	25	21	28	23	19		25	20	17		22

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	1.8
10°-20°	389.6	5.1
20°-30°	589.1	7.7
30°-40°	712.7	9.3
40°-50°	753.4	9.9
50°-60°	709.1	9.3
60°-70°	588.4	7.7
70°-80°	412.9	5.4
80°-90°	234.9	3.1
90°-100°	203.2	2.7
100°-110°	296.2	3.9
110°-120°	397.7	5.2
120°-130°	472.5	6.2
130°-140°	503.9	6.6
140°-150°	482.1	6.3
150°-160°	402.7	5.3
160°-170°	267.9	3.5
170°-180°	93.8	1.2
0°-30°	1114.7	14.6
0°-40°	1827.4	23.9
0°-60°	3289.9	43.0
0°-90°	4526.2	59.2
90°-120°	897.1	11.7
90°-150°	2355.5	30.8
90°-180°	3120.0	40.8
0°-180°	7646.0	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°	28	101	176	227	242	21
95°	67	127	198	244	258	66
105°	193	226	289	331	346	206
115°	344	358	408	443	453	340
125°	493	492	531	560	568	440
135°	631	636	647	671	679	489
145°	764	766	767	776	780	479
155°	874	874	873	876	873	402
165°	952	949	948	952	949	268
175°	990	986	985	991	985	94
180°	991	991	991	991	991	

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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°	28.0	100.7	176.0	227.2	241.6
92.5°	44.0	110.3	183.2	230.5	244.1
95°	66.9	126.8	198.1	243.8	258.3
97.5°	92.9	145.6	217.7	262.5	276.9
100°	125.0	169.9	239.4	284.4	295.7
102.5°	160.3	196.4	263.6	307.7	321.3
105°	193.2	226.0	288.6	331.0	346.2
107.5°	230.7	258.8	315.8	359.0	369.6
110°	267.5	291.5	346.9	382.4	397.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	305.6	324.9	376.5	411.8	424.7
115°	343.9	358.4	408.3	442.9	453.3
117.5°	381.5	391.2	438.6	470.0	480.6
120°	417.5	425.4	469.7	498.0	512.4
122.5°	456.6	457.3	500.0	529.9	537.2
125°	493.3	491.7	531.1	560.1	568.3
127.5°	527.8	528.5	559.2	586.5	597.0
130°	563.0	563.7	589.4	616.9	623.4
132.5°	600.6	600.5	619.1	644.8	653.8
135°	631.2	635.8	647.1	671.3	678.6
137.5°	667.2	667.9	675.9	697.7	706.5
140°	703.3	703.2	704.8	724.9	732.2
142.5°	734.6	736.2	733.8	751.5	757.9
145°	764.5	766.0	766.8	775.6	779.8
147.5°	795.2	797.4	796.7	797.5	803.1
150°	822.8	824.3	824.3	824.3	823.5
152.5°	847.3	848.8	849.6	851.9	849.6
155°	874.1	874.1	873.4	876.4	873.4
157.5°	897.1	895.6	895.6	897.9	895.6
160°	917.1	916.3	915.5	917.8	914.0
162.5°	935.5	933.2	932.4	937.0	933.2
165°	951.6	949.3	947.7	952.3	949.3
167.5°	964.6	961.5	961.5	966.1	961.5
170°	975.3	971.5	972.3	976.9	971.5
172.5°	983.0	979.9	979.9	985.3	979.9
175°	989.9	986.1	985.3	990.7	985.3
177.5°	993.0	989.1	989.1	994.5	988.4
180°	991.4	991.4	991.4	991.4	991.4

(END OF REPORT)