

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: P1024828

Luminaire Tested: S124DIP-B1020D1035UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024828
REPORT IS A COMBINATION OF REPORTS P995158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D1035UB35-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

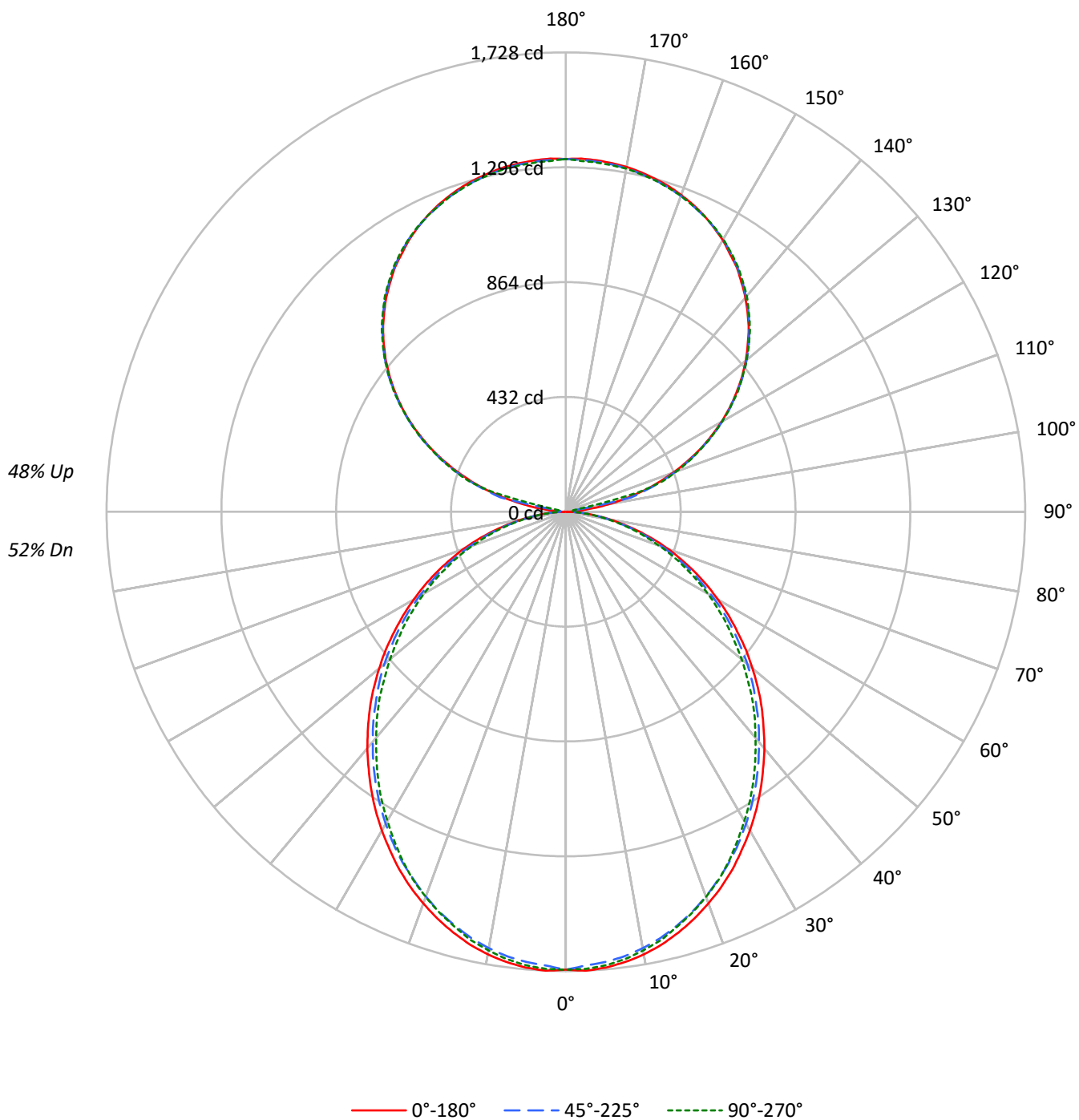
Lumens per Lamp: N/A
Luminaire Lumens: 8530.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	30	10
RCR																	
0	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58
1	98	94	90	86	91	87	84	80	74	71	69	62	60	59	51	50	49
2	89	82	76	71	82	76	71	66	65	61	57	54	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	68	57	49	43	63	53	46	40	45	40	35	39	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14045	14045	14045
5°	14058	13642	13658
10°	13938	13262	13170
15°	13739	12812	12620
20°	13483	12326	12049
25°	13196	11811	11436
30°	12849	11254	10762
35°	12491	10685	10110
40°	12116	10073	9418
45°	11723	9457	8771
50°	11289	8861	8053
55°	10818	8165	7341
60°	10334	7403	6598
65°	9781	6615	5762
70°	9145	5668	4866
75°	8193	4568	3897
80°	6984	3304	2741
85°	5421	1840	1476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	1.9
10°-20°	457.4	5.4
20°-30°	673.1	7.9
30°-40°	782.5	9.2
40°-50°	782.4	9.2
50°-60°	684.3	8.0
60°-70°	508.0	6.0
70°-80°	288.3	3.4
80°-90°	85.3	1.0
90°-100°	44.0	0.5
100°-110°	290.1	3.4
110°-120°	553.9	6.5
120°-130°	703.2	8.2
130°-140°	752.3	8.8
140°-150°	703.4	8.2
150°-160°	567.3	6.7
160°-170°	365.8	4.3
170°-180°	126.1	1.5
0°-30°	1292.9	15.2
0°-40°	2075.4	24.3
0°-60°	3542.1	41.5
0°-90°	4423.7	51.9
90°-120°	888.1	10.4
90°-150°	3047.1	35.7
90°-180°	4106.0	48.1
0°-180°	8530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1721	1716	1700	1716	1713	163
15°	1638	1633	1612	1620	1616	462
25°	1484	1474	1455	1456	1451	683
35°	1277	1267	1248	1238	1231	798
45°	1042	1032	1010	995	991	803
55°	788	784	765	748	740	706
65°	534	527	513	500	493	529
75°	284	277	270	265	264	302
85°	74	74	72	72	70	80
90°	3	14	22	28	30	8
95°	55	21	22	28	29	67
105°	299	305	310	319	283	313
115°	558	561	560	562	562	549
125°	784	788	786	789	790	700
135°	973	972	976	978	980	750
145°	1122	1124	1124	1126	1128	701
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°	1722.4	1722.4	1722.4	1722.4	1722.4
2.5°	1728.0	1723.8	1708.6	1722.4	1721.1
5°	1721.1	1715.5	1700.4	1715.5	1712.8
7.5°	1708.6	1703.1	1686.6	1699.0	1697.6
10°	1690.7	1685.2	1667.2	1678.3	1675.5
12.5°	1667.2	1661.7	1642.4	1654.8	1650.7
15°	1638.3	1632.7	1612.0	1620.3	1616.2
17.5°	1605.1	1598.2	1578.9	1584.4	1581.7
20°	1567.9	1561.0	1540.3	1544.4	1541.6
22.5°	1527.8	1518.2	1497.5	1505.8	1500.2
25°	1483.7	1474.0	1454.7	1456.1	1450.6
27.5°	1434.0	1424.3	1406.4	1403.6	1396.7
30°	1384.3	1373.3	1355.3	1349.8	1342.9
32.5°	1331.9	1322.2	1302.9	1296.0	1289.1
35°	1276.7	1267.0	1247.7	1238.0	1231.1
37.5°	1218.7	1210.4	1189.7	1180.0	1170.4
40°	1162.1	1151.1	1130.4	1116.6	1109.7
42.5°	1101.4	1095.9	1072.4	1055.8	1051.7
45°	1042.0	1032.4	1010.3	995.1	991.0
47.5°	979.9	973.0	952.3	935.8	924.7
50°	916.4	910.9	891.6	872.3	864.0
52.5°	854.3	847.4	826.7	810.2	799.1
55°	788.1	783.9	764.6	748.1	739.8
57.5°	726.0	721.8	702.5	685.9	677.7
60°	661.1	654.2	636.3	623.8	616.9
62.5°	597.6	592.1	572.8	561.7	554.8
65°	534.1	527.2	513.4	499.6	492.7
67.5°	469.3	463.7	449.9	436.1	434.8
70°	409.9	400.2	389.2	378.2	374.0
72.5°	346.4	336.8	328.5	320.2	316.1
75°	284.3	277.4	270.5	265.0	263.6
77.5°	223.6	220.8	213.9	212.5	208.4
80°	169.8	165.6	162.9	160.1	158.7
82.5°	117.3	115.9	115.9	114.6	113.2
85°	74.5	74.5	71.8	71.8	70.4
87.5°	35.9	34.5	33.1	33.1	33.1
90°	3.0	13.9	21.8	27.8	29.8
92.5°	14.9	12.9	20.8	26.8	26.8
95°	54.6	20.8	21.8	27.8	28.8
97.5°	104.2	126.1	21.8	26.8	27.8
100°	162.8	180.6	43.7	26.8	27.8
102.5°	228.3	240.2	252.1	28.8	28.8
105°	298.8	304.7	309.7	318.6	282.9
107.5°	363.3	366.2	373.2	378.2	382.1
110°	428.8	431.8	437.7	439.7	442.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.3	498.3	500.2	499.2	503.2
115°	557.8	560.8	559.8	561.8	561.8
117.5°	616.4	620.3	623.3	622.3	622.3
120°	675.9	679.9	678.9	680.9	678.9
122.5°	731.5	733.5	735.5	736.5	734.5
125°	784.1	788.1	786.1	789.1	790.1
127.5°	834.7	835.7	840.7	839.7	838.7
130°	883.4	884.3	887.3	888.3	888.3
132.5°	928.0	930.0	934.0	935.0	934.0
135°	972.7	971.7	975.7	977.6	979.6
137.5°	1012.4	1012.4	1017.3	1019.3	1018.3
140°	1051.1	1053.1	1055.1	1058.0	1059.0
142.5°	1085.8	1089.8	1090.8	1092.8	1092.8
145°	1121.6	1124.5	1124.5	1125.5	1127.5
147.5°	1149.4	1155.3	1154.3	1155.3	1156.3
150°	1180.1	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)