

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: P1025059

Luminaire Tested: S124DIP-B1195D1035UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025059
REPORT IS A COMBINATION OF REPORTS P995464 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1035UB40-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

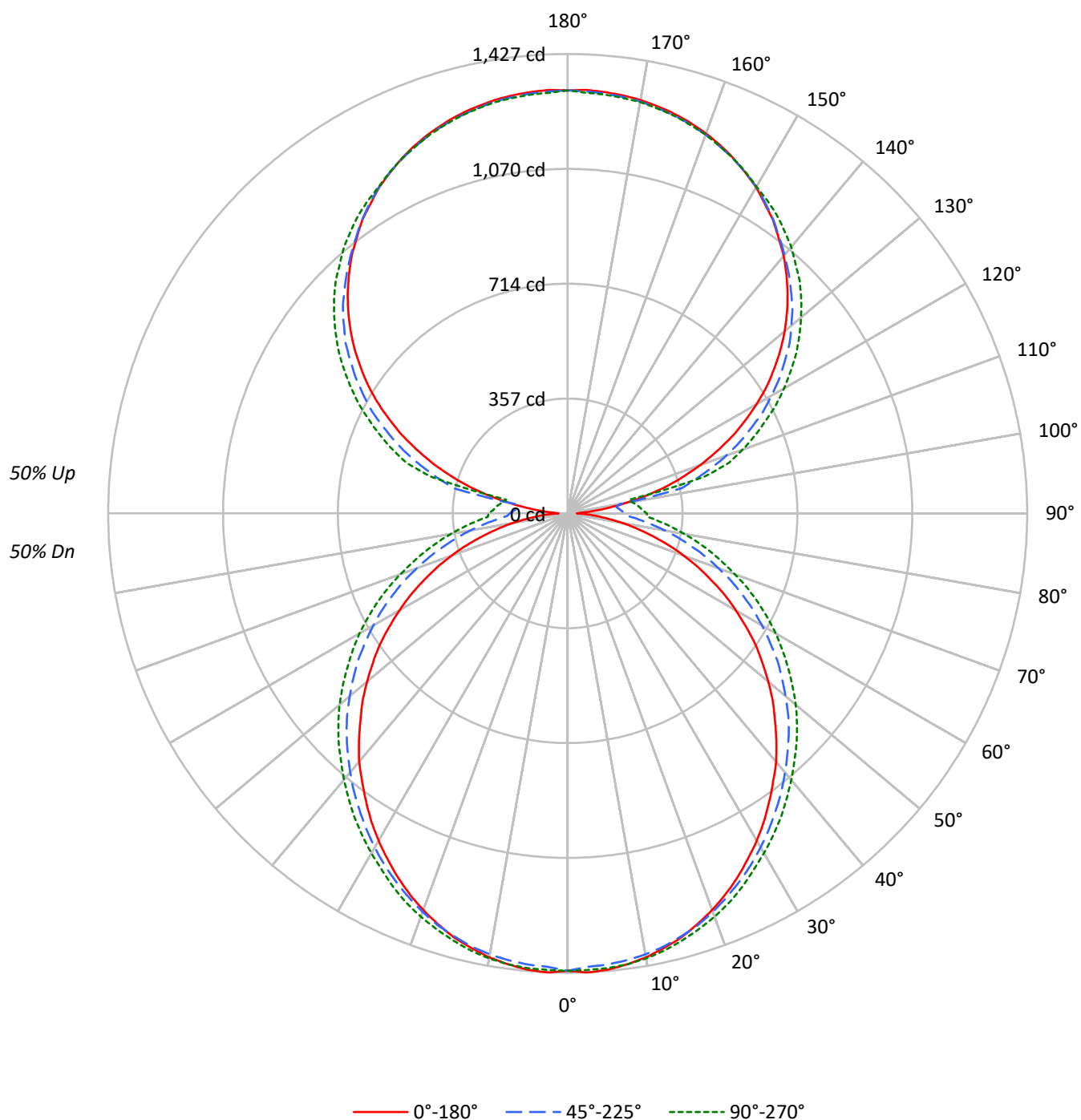
Lumens per Lamp: N/A
Luminaire Lumens: 8913.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1025059

CATALOG NUMBER: S124DIP-B1195D1035UB40-4F0-XX-W2A-D

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	56
1	97	92	88	84	89	85	81	78	72	69	66	59	58	56	48	47	46	46	46	40
2	88	80	73	68	81	74	68	63	62	58	54	52	48	46	42	40	38	38	38	33
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	32	32	32	27
4	73	62	53	47	67	57	50	44	48	43	38	40	36	32	33	29	27	27	27	23
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23	23	23	20
6	61	49	41	34	56	45	38	32	39	33	28	32	28	24	26	23	20	20	20	17
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	18	18	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	16	16	14
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14	14	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11588	11588	11588
5°	11620	11286	11307
10°	11545	11064	11033
15°	11437	10814	10723
20°	11277	10544	10422
25°	11096	10246	10099
30°	10901	9951	9769
35°	10681	9649	9474
40°	10502	9359	9170
45°	10241	9087	8901
50°	10018	8778	8617
55°	9786	8480	8290
60°	9428	8109	7982
65°	9034	7709	7612
70°	8556	7253	7184
75°	7887	6745	6776
80°	7136	6228	6350
85°	6134	5709	6003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10241 cd/sqm

TEST NUMBER: P1025059

CATALOG NUMBER: S124DIP-B1195D1035UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.5
10°-20°	385.8	4.3
20°-30°	583.3	6.5
30°-40°	705.7	7.9
40°-50°	746.0	8.4
50°-60°	702.1	7.9
60°-70°	582.6	6.5
70°-80°	408.9	4.6
80°-90°	233.2	2.6
90°-100°	180.8	2.0
100°-110°	388.8	4.4
110°-120°	616.6	6.9
120°-130°	734.6	8.2
130°-140°	761.4	8.5
140°-150°	699.7	7.9
150°-160°	561.6	6.3
160°-170°	362.2	4.1
170°-180°	124.8	1.4
0°-30°	1103.7	12.4
0°-40°	1809.5	20.3
0°-60°	3257.6	36.5
0°-90°	4482.3	50.3
90°-120°	1186.2	13.3
90°-150°	3382.0	37.9
90°-180°	4431.0	49.7
0°-180°	8913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1423	1418	1407	1420	1418	135
15°	1364	1365	1361	1375	1373	384
25°	1248	1257	1262	1279	1281	575
35°	1092	1111	1127	1149	1154	684
45°	910	940	971	998	1006	704
55°	713	746	794	826	836	635
65°	493	544	598	638	651	489
75°	274	333	399	444	458	291
85°	84	151	223	270	286	88
90°	28	103	179	231	246	20
95°	75	94	160	209	224	83
105°	310	348	412	460	438	326
115°	562	579	629	666	677	554
125°	783	785	823	856	866	699
135°	966	965	980	1008	1019	745
145°	1112	1113	1113	1124	1132	695
155°	1218	1218	1216	1219	1216	561
165°	1284	1279	1279	1287	1278	363
175°	1314	1308	1309	1318	1306	125
180°	1314	1314	1314	1314	1314	

TEST NUMBER: P1025059

CATALOG NUMBER: S124DIP-B1195D1035UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.1	1421.1	1421.1	1421.1	1421.1
2.5°	1427.4	1422.7	1409.9	1421.1	1419.5
5°	1422.7	1417.9	1406.7	1419.5	1417.9
7.5°	1413.1	1409.9	1400.4	1414.7	1413.1
10°	1400.4	1398.8	1390.8	1405.2	1403.6
12.5°	1382.9	1382.9	1378.1	1390.8	1390.8
15°	1363.8	1365.4	1360.6	1374.9	1373.3
17.5°	1338.3	1343.1	1341.5	1355.8	1354.2
20°	1311.3	1316.0	1317.6	1333.5	1333.5
22.5°	1281.0	1287.4	1290.6	1306.5	1309.7
25°	1247.6	1257.2	1261.9	1279.4	1281.0
27.5°	1211.0	1225.3	1231.7	1247.6	1249.2
30°	1174.4	1187.1	1198.3	1215.8	1219.0
32.5°	1134.6	1150.5	1163.3	1184.0	1187.1
35°	1091.7	1110.8	1126.7	1148.9	1153.7
37.5°	1048.7	1071.0	1090.1	1112.3	1117.1
40°	1007.3	1028.0	1050.3	1074.2	1080.5
42.5°	959.6	983.4	1010.5	1037.6	1042.3
45°	910.2	940.5	970.7	997.8	1005.7
47.5°	864.1	894.3	929.3	956.4	965.9
50°	813.2	848.2	883.2	915.0	924.6
52.5°	762.3	797.3	838.6	870.5	880.0
55°	712.9	746.3	794.1	825.9	835.5
57.5°	657.2	698.6	744.7	782.9	790.9
60°	603.1	644.5	697.0	733.6	746.3
62.5°	550.6	596.8	649.3	685.9	698.6
65°	493.3	544.2	598.3	638.1	650.9
67.5°	439.2	493.3	550.6	590.4	603.1
70°	383.5	437.6	498.1	541.1	552.2
72.5°	329.4	385.1	450.3	491.7	504.5
75°	273.7	332.6	399.4	444.0	458.3
77.5°	221.2	283.3	353.3	397.8	413.7
80°	173.5	237.1	307.1	354.9	367.6
82.5°	125.7	192.6	262.6	311.9	326.2
85°	84.3	151.2	222.8	270.5	286.4
87.5°	52.5	117.8	187.8	233.9	248.2
90°	28.4	102.9	179.1	231.2	245.9
92.5°	38.6	92.4	168.6	219.1	231.8
95°	74.7	93.8	160.0	208.9	224.2
97.5°	122.3	190.0	152.1	198.4	213.7
100°	178.7	237.7	164.1	190.4	202.5
102.5°	243.5	290.3	362.6	182.9	195.6
105°	310.1	347.8	411.6	460.2	437.5
107.5°	373.9	404.0	466.6	511.3	526.3
110°	437.2	462.4	524.0	562.6	578.3

TEST NUMBER: P1025059

CATALOG NUMBER: S124DIP-B1195D1035UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.5	523.5	577.9	612.1	628.7
115°	561.7	579.1	629.0	666.0	677.1
117.5°	619.7	633.2	683.9	716.4	729.1
120°	677.2	685.8	731.0	764.8	775.5
122.5°	732.2	734.2	779.0	811.8	821.0
125°	782.7	785.0	822.8	856.0	866.5
127.5°	832.8	832.2	868.9	896.5	906.7
130°	879.3	878.7	907.1	936.8	946.3
132.5°	923.6	923.9	947.0	974.9	983.6
135°	966.2	965.2	980.2	1007.7	1019.2
137.5°	1005.5	1003.9	1015.2	1041.0	1048.0
140°	1043.8	1044.2	1047.7	1071.4	1080.3
142.5°	1076.6	1080.5	1079.9	1099.4	1105.8
145°	1112.0	1113.3	1113.3	1123.8	1132.2
147.5°	1139.5	1143.8	1142.8	1145.4	1152.8
150°	1169.9	1172.3	1171.3	1171.3	1172.3
152.5°	1193.9	1196.8	1194.9	1196.8	1195.9
155°	1217.5	1218.5	1215.5	1219.4	1216.5
157.5°	1238.1	1238.1	1234.2	1239.1	1234.2
160°	1255.8	1252.9	1251.9	1257.8	1251.9
162.5°	1271.5	1267.6	1266.6	1272.5	1265.6
165°	1284.3	1279.4	1279.4	1287.2	1278.4
167.5°	1295.1	1290.2	1289.2	1298.1	1288.2
170°	1303.9	1298.1	1299.0	1306.9	1297.1
172.5°	1309.8	1303.9	1304.9	1312.8	1302.0
175°	1313.8	1307.9	1308.9	1317.7	1305.9
177.5°	1316.7	1309.8	1311.8	1319.7	1307.9
180°	1313.8	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)