

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: P1025324

Luminaire Tested: S124DIP-B350D1205UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025324
REPORT IS A COMBINATION OF REPORTS P995819 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1205UB35-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

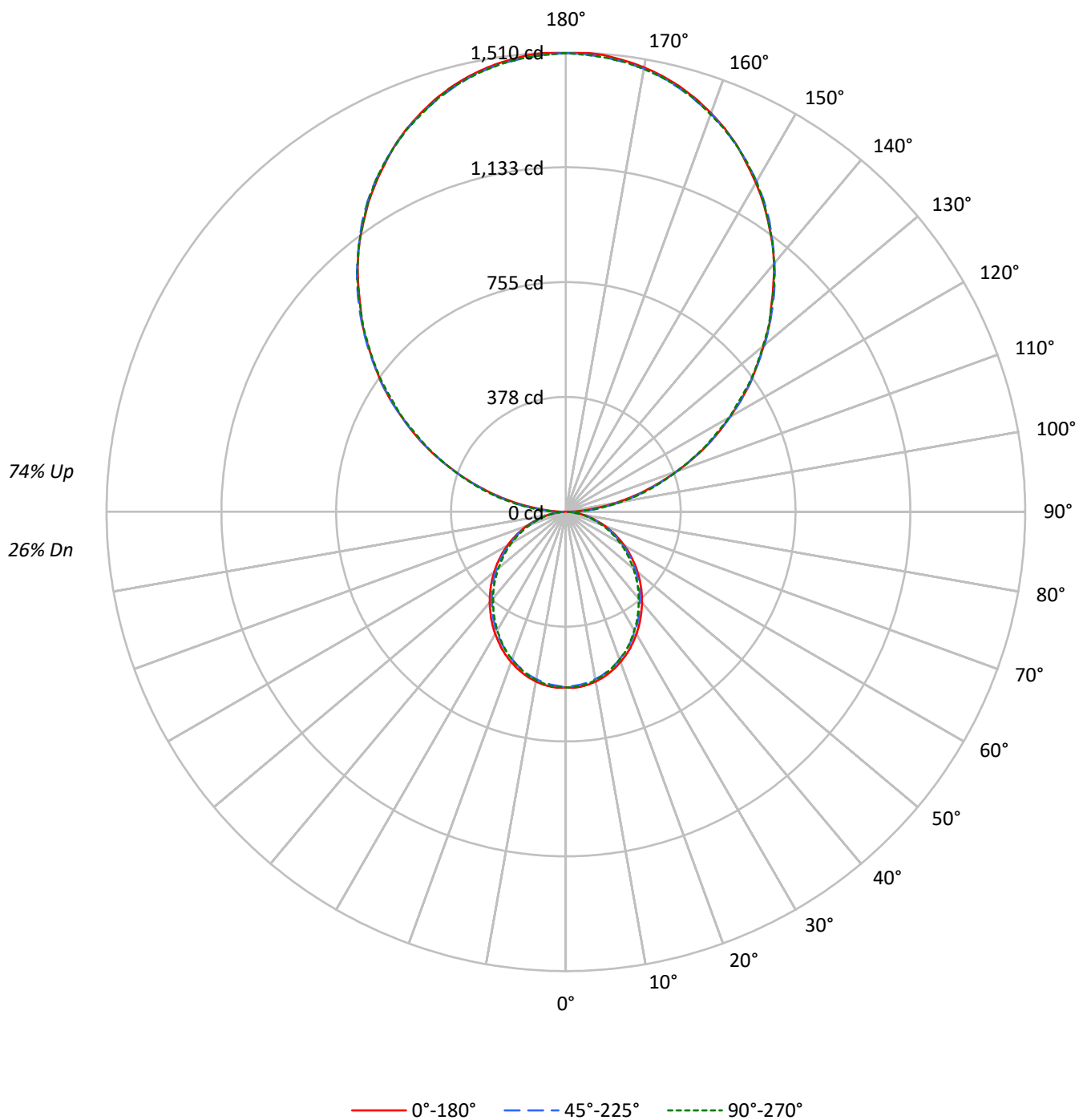
Lumens per Lamp: N/A
Luminaire Lumens: 5669.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34
1	92	88	84	81	82	79	76	73	61	59	57	45	44	43	30	29	29
2	84	77	71	66	75	69	64	60	54	50	47	40	37	36	27	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21
4	70	60	52	46	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	47	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14
7	54	43	35	30	48	38	32	27	30	25	22	23	19	17	16	14	12
8	50	39	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10
10	44	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4708	4708	4708
5°	4712	4573	4579
10°	4673	4446	4415
15°	4606	4295	4230
20°	4520	4132	4039
25°	4424	3959	3834
30°	4307	3772	3608
35°	4187	3581	3389
40°	4062	3376	3157
45°	3930	3171	2940
50°	3784	2971	2699
55°	3627	2737	2461
60°	3464	2482	2212
65°	3278	2218	1932
70°	3065	1900	1631
75°	2746	1532	1307
80°	2340	1107	919
85°	1819	618	495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3930 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.0
10°-20°	153.3	2.7
20°-30°	225.7	4.0
30°-40°	262.3	4.6
40°-50°	262.3	4.6
50°-60°	229.4	4.0
60°-70°	170.3	3.0
70°-80°	96.6	1.7
80°-90°	30.9	0.5
90°-100°	98.3	1.7
100°-110°	294.4	5.2
110°-120°	500.1	8.8
120°-130°	659.6	11.6
130°-140°	740.8	13.1
140°-150°	728.1	12.8
150°-160°	612.4	10.8
160°-170°	407.5	7.2
170°-180°	142.7	2.5
0°-30°	433.4	7.6
0°-40°	695.7	12.3
0°-60°	1187.4	20.9
0°-90°	1485.2	26.2
90°-120°	892.8	15.7
90°-150°	3021.3	53.3
90°-180°	4184.0	73.8
0°-180°	5669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	577	575	570	575	574	55
15°	549	547	540	543	542	155
25°	497	494	488	488	486	229
35°	428	425	418	415	413	268
45°	349	346	339	334	332	269
55°	264	263	256	251	248	237
65°	179	177	172	168	165	177
75°	95	93	91	89	88	101
85°	25	25	24	24	24	27
90°	4	16	26	33	35	7
95°	70	80	89	92	92	76
105°	272	273	278	281	284	288
115°	508	508	506	505	504	501
125°	740	740	739	737	735	660
135°	955	962	962	960	956	739
145°	1160	1165	1166	1165	1162	726
155°	1329	1329	1328	1333	1328	612
165°	1447	1444	1441	1448	1444	408
175°	1506	1500	1498	1507	1498	143
180°	1508	1508	1508	1508	1508	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.4	577.4	577.4	577.4	577.4
2.5°	579.2	577.9	572.8	577.4	576.9
5°	576.9	575.1	570.0	575.1	574.2
7.5°	572.8	570.9	565.4	569.5	569.1
10°	566.8	564.9	558.9	562.6	561.7
12.5°	558.9	557.0	550.6	554.7	553.3
15°	549.2	547.3	540.4	543.2	541.8
17.5°	538.1	535.8	529.3	531.1	530.2
20°	525.6	523.3	516.3	517.7	516.8
22.5°	512.2	508.9	502.0	504.8	502.9
25°	497.4	494.1	487.6	488.1	486.3
27.5°	480.7	477.5	471.4	470.5	468.2
30°	464.0	460.3	454.3	452.5	450.2
32.5°	446.5	443.2	436.7	434.4	432.1
35°	428.0	424.7	418.2	415.0	412.7
37.5°	408.5	405.8	398.8	395.6	392.3
40°	389.6	385.9	378.9	374.3	372.0
42.5°	369.2	367.3	359.5	353.9	352.5
45°	349.3	346.1	338.7	333.6	332.2
47.5°	328.5	326.2	319.2	313.7	310.0
50°	307.2	305.4	298.9	292.4	289.6
52.5°	286.4	284.1	277.1	271.6	267.9
55°	264.2	262.8	256.3	250.8	248.0
57.5°	243.4	242.0	235.5	229.9	227.2
60°	221.6	219.3	213.3	209.1	206.8
62.5°	200.3	198.5	192.0	188.3	186.0
65°	179.0	176.7	172.1	167.5	165.2
67.5°	157.3	155.5	150.8	146.2	145.7
70°	137.4	134.2	130.5	126.8	125.4
72.5°	116.1	112.9	110.1	107.3	105.9
75°	95.3	93.0	90.7	88.8	88.4
77.5°	75.0	74.0	71.7	71.2	69.9
80°	56.9	55.5	54.6	53.7	53.2
82.5°	39.3	38.9	38.9	38.4	37.9
85°	25.0	25.0	24.1	24.1	23.6
87.5°	12.0	11.6	11.1	11.1	11.1
90°	3.5	16.3	25.7	32.7	35.0
92.5°	30.3	45.5	51.3	54.8	56.0
95°	70.0	80.5	88.6	92.1	92.1
97.5°	112.0	121.3	130.6	135.3	135.3
100°	163.3	167.9	178.4	180.8	180.8
102.5°	216.9	218.1	227.4	230.9	232.1
105°	271.7	272.9	277.6	281.0	284.5
107.5°	328.9	330.0	331.2	335.9	334.7
110°	387.2	389.5	388.3	386.0	389.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	447.8	447.8	445.5	445.5	445.5
115°	508.5	508.5	506.1	505.0	503.8
117.5°	565.6	565.6	564.4	560.9	557.4
120°	622.7	627.4	623.9	618.1	620.4
122.5°	682.2	683.4	682.2	678.7	672.9
125°	740.5	740.5	739.4	737.0	734.7
127.5°	793.0	796.5	794.2	791.8	790.7
130°	849.0	852.5	852.5	850.1	845.5
132.5°	906.1	908.5	907.3	905.0	903.8
135°	955.1	962.1	962.1	959.8	956.3
137.5°	1009.9	1013.4	1015.7	1012.2	1013.4
140°	1064.7	1067.1	1067.1	1065.9	1064.7
142.5°	1114.9	1117.2	1116.0	1116.0	1116.0
145°	1160.3	1165.0	1166.2	1165.0	1161.5
147.5°	1207.0	1212.8	1211.7	1210.5	1209.3
150°	1249.0	1253.6	1253.6	1253.6	1252.5
152.5°	1288.6	1291.0	1292.1	1295.6	1292.1
155°	1329.4	1329.4	1328.3	1332.9	1328.3
157.5°	1364.4	1362.1	1362.1	1365.6	1362.1
160°	1394.7	1393.6	1392.4	1395.9	1390.1
162.5°	1422.7	1419.2	1418.1	1425.1	1419.2
165°	1447.2	1443.7	1441.4	1448.4	1443.7
167.5°	1467.1	1462.4	1462.4	1469.4	1462.4
170°	1483.4	1477.5	1478.7	1485.7	1477.5
172.5°	1495.0	1490.4	1490.4	1498.5	1490.4
175°	1505.5	1499.7	1498.5	1506.7	1498.5
177.5°	1510.2	1504.4	1504.4	1512.5	1503.2
180°	1507.9	1507.9	1507.9	1507.9	1507.9

(END OF REPORT)