

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: P1025325

Luminaire Tested: S124DIP-B350D1205UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025325
REPORT IS A COMBINATION OF REPORTS P995820 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-F4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

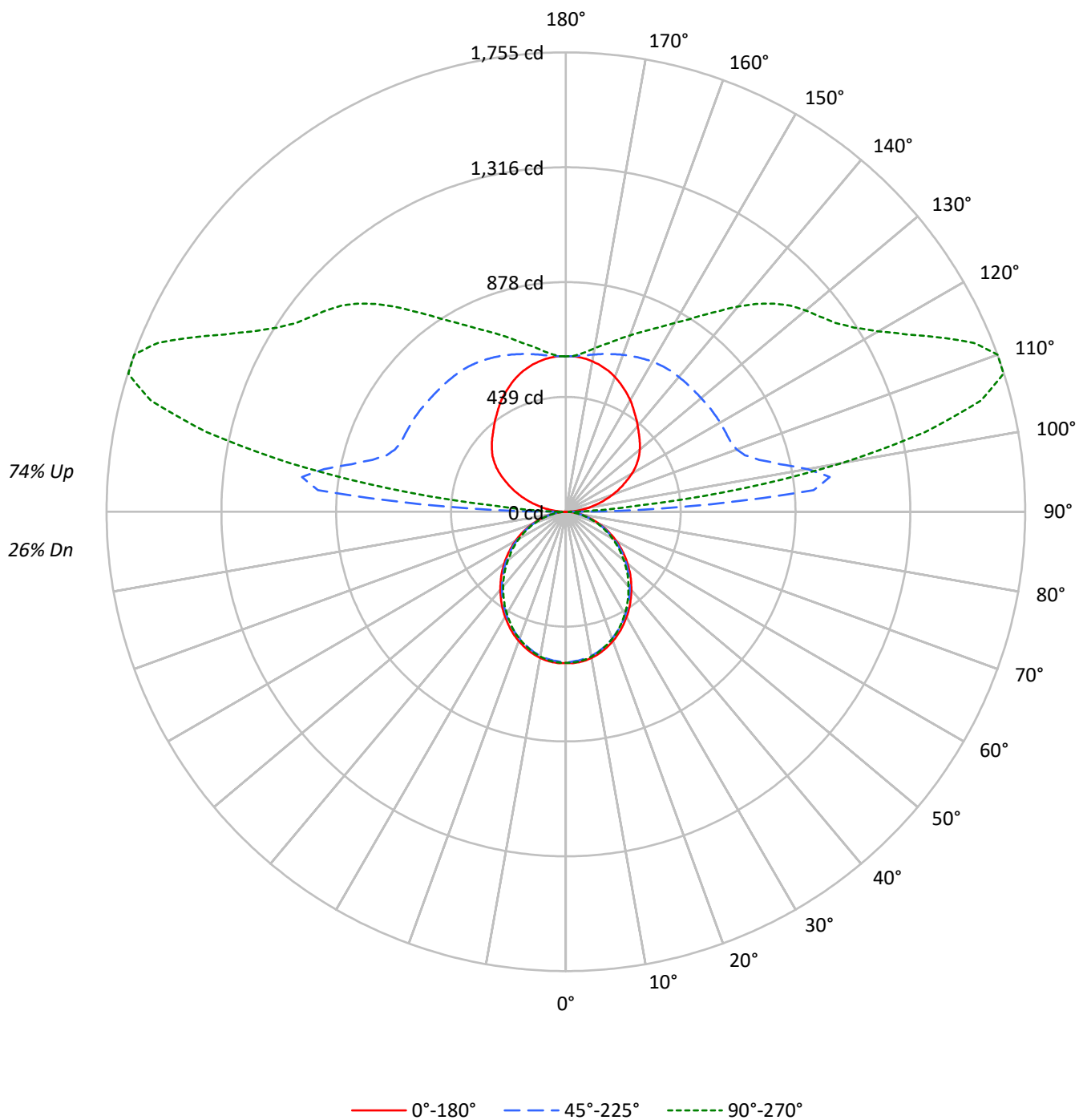
Lumens per Lamp: N/A
Luminaire Lumens: 5816.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	84	81	82	79	76	73	61	59	57	45	43	42	30	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	67	60	55	68	60	54	50	47	43	40	35	32	30	23	22	20
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	21	19	17
5	64	53	45	39	57	47	41	36	37	32	29	28	24	22	19	17	15
6	59	47	40	34	52	42	36	31	33	29	25	25	22	19	17	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	9
10	43	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	0.9
10°-20°	153.3	2.6
20°-30°	225.7	3.9
30°-40°	262.3	4.5
40°-50°	262.3	4.5
50°-60°	229.4	3.9
60°-70°	170.3	2.9
70°-80°	96.6	1.7
80°-90°	30.0	0.5
90°-100°	441.0	7.6
100°-110°	896.9	15.4
110°-120°	799.4	13.7
120°-130°	671.5	11.5
130°-140°	560.4	9.6
140°-150°	428.0	7.4
150°-160°	300.8	5.2
160°-170°	176.9	3.0
170°-180°	57.5	1.0
0°-30°	433.4	7.5
0°-40°	695.7	12.0
0°-60°	1187.4	20.4
0°-90°	1484.3	25.5
90°-120°	2137.3	36.7
90°-150°	3797.1	65.3
90°-180°	4332.0	74.5
0°-180°	5816.7	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°	1	9	21	23	24	4
95°	38	121	950	471	285	42
105°	136	198	765	1647	1641	145
115°	240	301	682	1311	1576	238
125°	335	398	679	1116	1257	298
135°	398	474	673	990	1124	307
145°	458	525	670	835	918	288
155°	521	563	651	737	769	240
165°	568	586	624	661	671	160
175°	592	594	598	606	604	56
180°	594	594	594	594	594	

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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°	1.2	9.3	21.0	23.3	24.5
92.5°	16.3	89.8	457.2	151.0	106.1
95°	38.5	121.3	950.5	470.6	284.6
97.5°	64.1	134.1	1017.0	961.0	683.4
100°	88.6	151.6	937.7	1329.6	1069.5
102.5°	112.0	172.6	838.6	1560.5	1405.4
105°	136.5	197.7	765.1	1647.4	1641.0
107.5°	163.3	223.4	717.3	1621.2	1752.9
110°	190.1	249.0	695.1	1527.8	1755.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.8	274.6	684.6	1413.6	1686.5
115°	240.3	301.4	682.3	1310.9	1575.7
117.5°	265.9	326.5	681.1	1230.4	1467.2
120°	291.6	351.0	681.1	1176.2	1378.6
122.5°	314.9	375.0	680.0	1140.6	1308.6
125°	334.7	397.7	678.8	1115.6	1257.3
127.5°	353.4	418.7	676.5	1091.6	1224.6
130°	368.5	439.1	675.3	1063.1	1196.6
132.5°	383.7	456.6	674.1	1029.2	1165.1
135°	397.7	473.6	673.0	990.2	1124.3
137.5°	411.7	488.1	673.0	948.2	1076.5
140°	426.9	501.5	671.8	907.4	1024.0
142.5°	443.2	513.8	671.8	869.5	968.0
145°	458.4	524.8	669.5	835.0	917.9
147.5°	475.8	535.4	666.0	806.5	871.2
150°	492.2	545.2	662.5	780.2	832.7
152.5°	507.3	554.6	656.6	758.1	797.7
155°	521.3	562.8	650.8	737.1	768.6
157.5°	535.3	570.3	645.0	717.2	741.8
160°	548.2	576.7	638.0	697.4	717.3
162.5°	559.8	582.0	631.0	678.2	693.9
165°	568.0	585.5	624.0	660.7	670.6
167.5°	577.3	588.4	617.0	645.6	652.0
170°	583.1	590.8	610.0	630.4	634.5
172.5°	589.0	592.4	603.0	617.0	617.0
175°	592.5	593.6	598.3	606.5	604.1
177.5°	594.8	593.6	594.8	598.9	594.8
180°	593.6	593.6	593.6	593.6	593.6

(END OF REPORT)