

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: P1025280

Luminaire Tested: S124DIP-B350D1035UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025280
REPORT IS A COMBINATION OF REPORTS P995760 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1035UB35-4F0-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

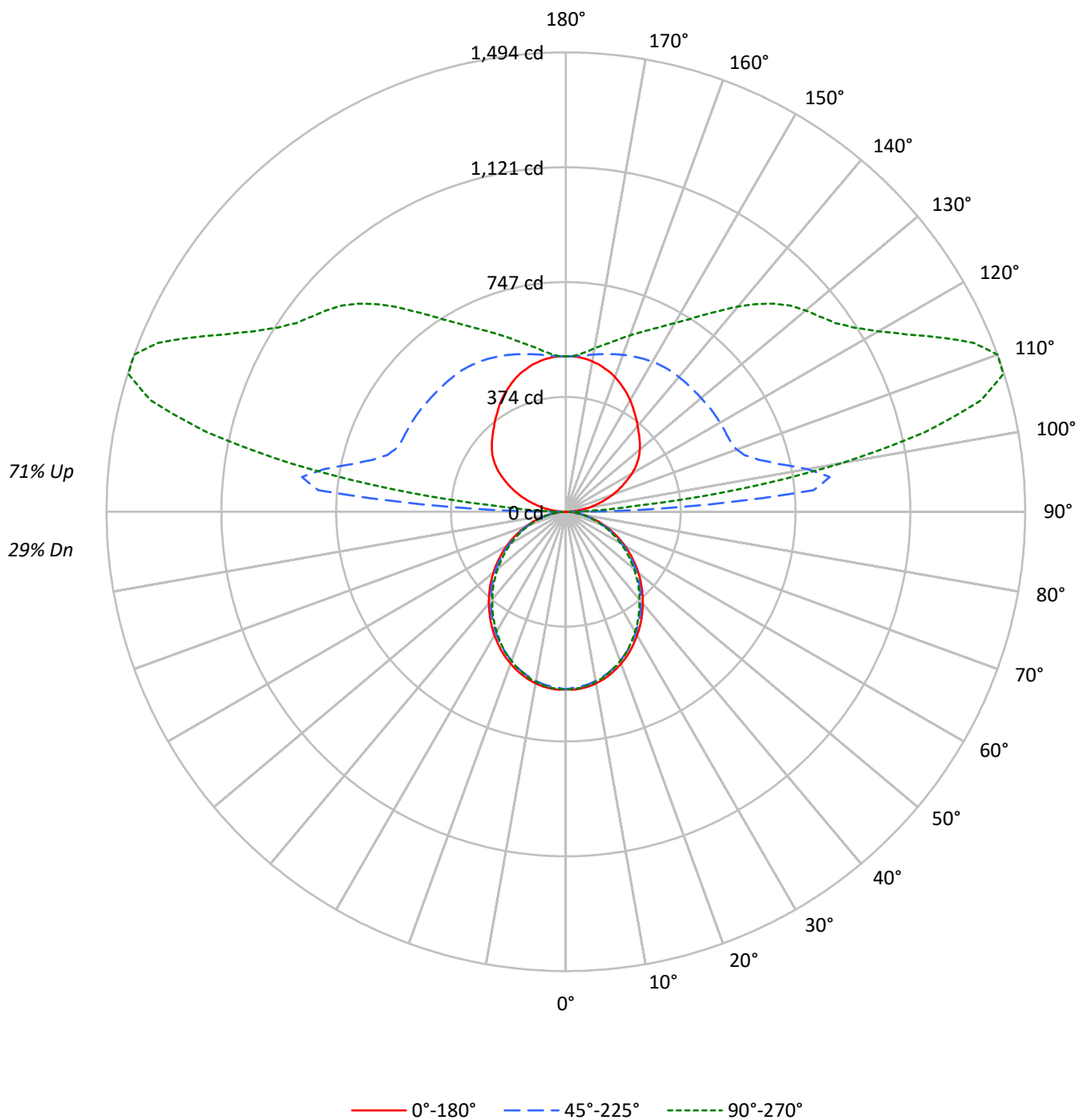
Lumens per Lamp: N/A
Luminaire Lumens: 5171.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22
4	70	60	52	47	63	54	48	43	43	38	34	32	29	27	22	21	19
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	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	1.1
10°-20°	153.3	3.0
20°-30°	225.7	4.4
30°-40°	262.3	5.1
40°-50°	262.3	5.1
50°-60°	229.4	4.4
60°-70°	170.3	3.3
70°-80°	96.6	1.9
80°-90°	29.6	0.6
90°-100°	375.3	7.3
100°-110°	763.4	14.8
110°-120°	680.4	13.2
120°-130°	571.5	11.1
130°-140°	476.9	9.2
140°-150°	364.2	7.0
150°-160°	256.0	5.0
160°-170°	150.6	2.9
170°-180°	49.0	0.9
0°-30°	433.4	8.4
0°-40°	695.7	13.5
0°-60°	1187.4	23.0
0°-90°	1484.0	28.7
90°-120°	1819.1	35.2
90°-150°	3231.8	62.5
90°-180°	3687.0	71.3
0°-180°	5171.4	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	8	18	20	21	4
95°	33	103	809	400	242	36
105°	116	168	651	1402	1397	124
115°	204	257	581	1116	1341	203
125°	285	338	578	950	1070	254
135°	338	403	573	843	957	262
145°	390	447	570	711	781	245
155°	444	479	554	627	654	205
165°	483	498	531	562	571	137
175°	504	505	509	516	514	48
180°	505	505	505	505	505	

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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°	1.0	7.9	17.9	19.9	20.8
92.5°	13.9	76.4	389.1	128.6	90.3
95°	32.8	103.2	809.0	400.5	242.2
97.5°	54.6	114.2	865.6	818.0	581.7
100°	75.4	129.0	798.1	1131.6	910.3
102.5°	95.3	146.9	713.7	1328.2	1196.2
105°	116.1	168.3	651.2	1402.2	1396.7
107.5°	139.0	190.1	610.5	1379.8	1492.0
110°	161.8	211.9	591.6	1300.4	1494.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.6	233.8	582.7	1203.1	1435.4
115°	204.5	256.6	580.7	1115.8	1341.1
117.5°	226.3	278.0	579.7	1047.3	1248.8
120°	248.2	298.8	579.7	1001.2	1173.3
122.5°	268.0	319.1	578.7	970.8	1113.8
125°	284.9	338.5	577.7	949.5	1070.1
127.5°	300.8	356.4	575.8	929.2	1042.3
130°	313.7	373.7	574.8	904.8	1018.5
132.5°	326.6	388.6	573.8	876.0	991.7
135°	338.5	403.0	572.8	842.8	956.9
137.5°	350.4	415.4	572.8	807.0	916.2
140°	363.3	426.8	571.8	772.3	871.6
142.5°	377.2	437.3	571.8	740.0	823.9
145°	390.1	446.7	569.8	710.8	781.2
147.5°	405.0	455.6	566.8	686.4	741.5
150°	418.9	464.0	563.8	664.1	708.8
152.5°	431.8	472.0	558.9	645.2	679.0
155°	443.7	479.0	553.9	627.3	654.2
157.5°	455.6	485.4	548.9	610.5	631.3
160°	466.6	490.8	543.0	593.6	610.5
162.5°	476.5	495.4	537.0	577.2	590.6
165°	483.4	498.3	531.1	562.3	570.8
167.5°	491.4	500.8	525.1	549.4	554.9
170°	496.3	502.8	519.2	536.6	540.0
172.5°	501.3	504.3	513.2	525.1	525.1
175°	504.3	505.3	509.2	516.2	514.2
177.5°	506.3	505.3	506.3	509.7	506.3
180°	505.3	505.3	505.3	505.3	505.3

(END OF REPORT)