

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: P1025278

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025278
REPORT IS A COMBINATION OF REPORTS P995758 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-F
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

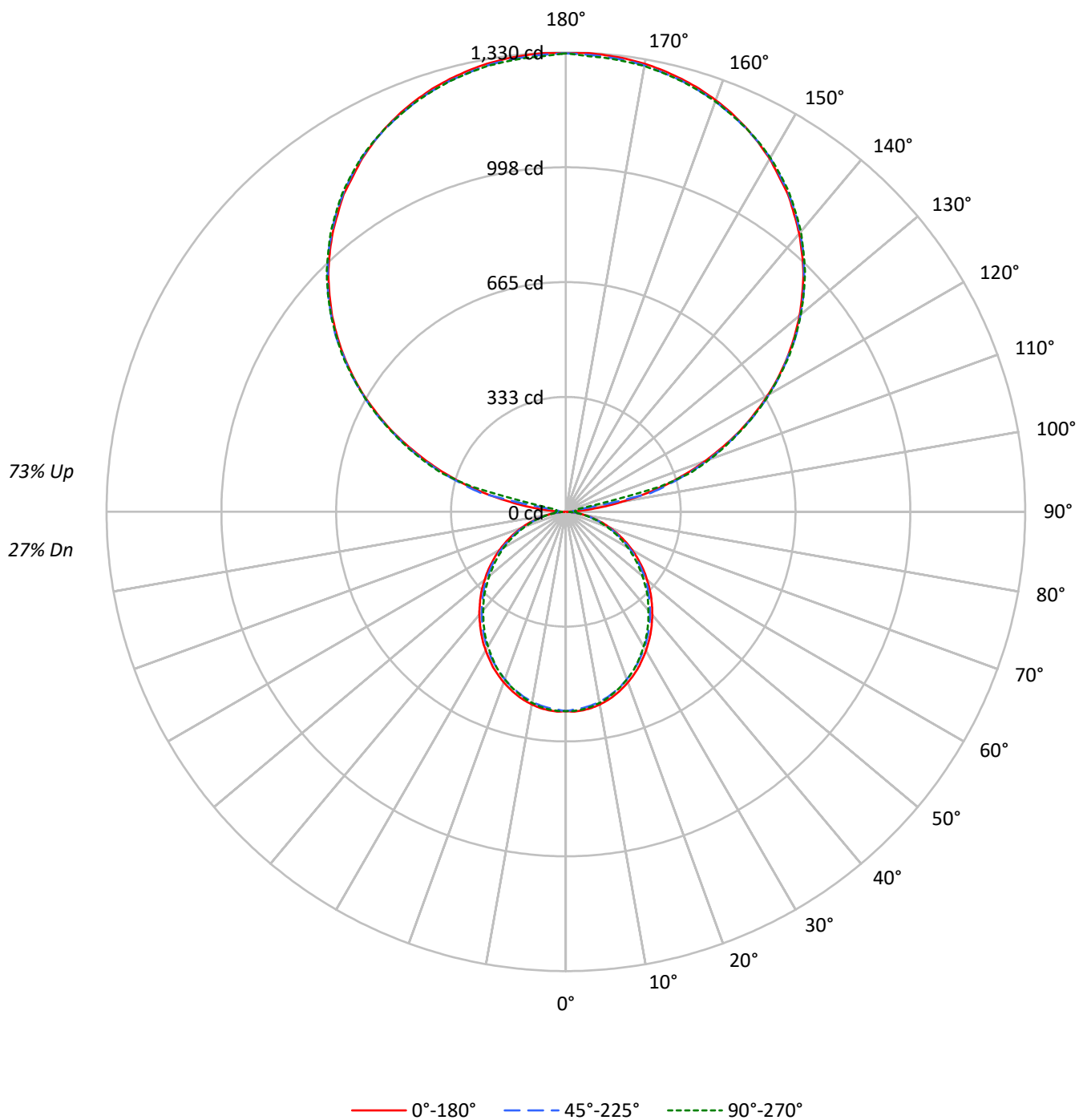
Lumens per Lamp: N/A
Luminaire Lumens: 5591.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	70	70	70	52	52	52	35	35	35
1	93	88	85	81	82	79	76	73	61	59	57	45	44	43	30	30	29
2	84	77	71	66	75	69	64	60	54	50	47	40	38	36	27	26	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	40	57	48	41	36	37	33	29	28	25	22	19	17	16
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	26	22	23	20	17	16	14	12
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	14	12	11
9	47	35	28	23	42	32	25	21	25	21	17	19	16	13	13	11	10
10	44	32	25	20	39	29	23	19	23	19	15	18	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	4.7
40°-50°	262.3	4.7
50°-60°	229.4	4.1
60°-70°	170.3	3.0
70°-80°	96.6	1.7
80°-90°	30.4	0.5
90°-100°	44.0	0.8
100°-110°	290.1	5.2
110°-120°	553.9	9.9
120°-130°	703.2	12.6
130°-140°	752.3	13.5
140°-150°	703.4	12.6
150°-160°	567.3	10.1
160°-170°	365.8	6.5
170°-180°	126.1	2.3
0°-30°	433.4	7.8
0°-40°	695.7	12.4
0°-60°	1187.4	21.2
0°-90°	1484.8	26.6
90°-120°	888.1	15.9
90°-150°	3047.1	54.5
90°-180°	4106.0	73.4
0°-180°	5591.0	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°	3	14	22	28	30	5
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°	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°	3.0	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)