

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: P1012999

Luminaire Tested: S124DIP-B350D1035UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012999
REPORT IS A COMBINATION OF REPORTS P995739 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1035UB2750-4F0-XX-W2A-F_3000K
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

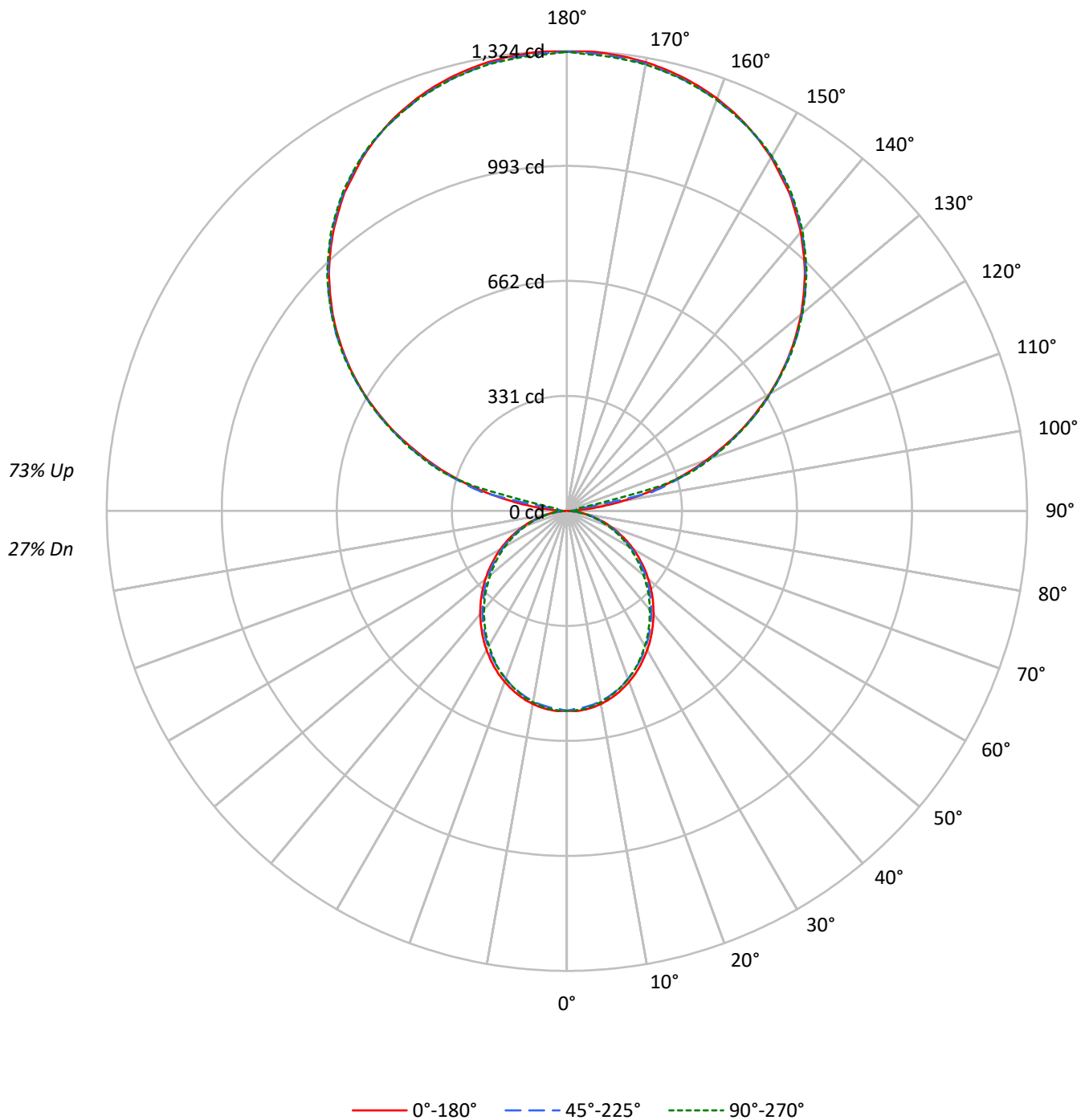
Lumens per Lamp: N/A
Luminaire Lumens: 5567.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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°	4690	4690	4690
5°	4693	4555	4560
10°	4654	4428	4397
15°	4587	4278	4213
20°	4502	4115	4023
25°	4405	3944	3818
30°	4290	3758	3593
35°	4170	3567	3375
40°	4045	3363	3144
45°	3914	3157	2928
50°	3770	2959	2689
55°	3612	2726	2451
60°	3450	2471	2203
65°	3265	2209	1924
70°	3054	1892	1625
75°	2735	1525	1301
80°	2332	1103	916
85°	1812	615	493

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.0
10°-20°	152.7	2.7
20°-30°	224.7	4.0
30°-40°	261.2	4.7
40°-50°	261.2	4.7
50°-60°	228.5	4.1
60°-70°	169.6	3.0
70°-80°	96.2	1.7
80°-90°	30.3	0.5
90°-100°	43.9	0.8
100°-110°	288.8	5.2
110°-120°	551.5	9.9
120°-130°	700.1	12.6
130°-140°	749.0	13.5
140°-150°	700.4	12.6
150°-160°	564.8	10.1
160°-170°	364.2	6.5
170°-180°	125.5	2.3
0°-30°	431.6	7.8
0°-40°	692.9	12.4
0°-60°	1182.6	21.2
0°-90°	1478.7	26.6
90°-120°	884.2	15.9
90°-150°	3033.7	54.5
90°-180°	4088.0	73.4
0°-180°	5567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	575	573	568	573	572	55
15°	547	545	538	541	540	154
25°	495	492	486	486	484	228
35°	426	423	416	413	411	267
45°	348	345	337	332	331	268
55°	263	262	255	250	247	236
65°	178	176	171	167	164	176
75°	95	93	90	88	88	101
85°	25	25	24	24	24	27
90°	3	14	22	28	30	4
95°	54	21	22	28	29	67
105°	297	303	308	317	282	311
115°	555	558	557	559	559	547
125°	781	785	783	786	787	697
135°	968	967	971	973	975	746
145°	1117	1120	1120	1121	1123	698
155°	1224	1225	1222	1226	1223	565
165°	1292	1287	1287	1294	1286	365
175°	1321	1315	1316	1325	1313	126
180°	1321	1321	1321	1321	1321	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.1	575.1	575.1	575.1	575.1
2.5°	576.9	575.5	570.5	575.1	574.6
5°	574.6	572.8	567.7	572.8	571.8
7.5°	570.5	568.6	563.1	567.2	566.8
10°	564.5	562.6	556.6	560.3	559.4
12.5°	556.6	554.8	548.3	552.5	551.1
15°	547.0	545.1	538.2	541.0	539.6
17.5°	535.9	533.6	527.1	529.0	528.1
20°	523.5	521.1	514.2	515.6	514.7
22.5°	510.1	506.9	500.0	502.7	500.9
25°	495.3	492.1	485.7	486.1	484.3
27.5°	478.8	475.5	469.5	468.6	466.3
30°	462.2	458.5	452.5	450.6	448.3
32.5°	444.7	441.4	435.0	432.7	430.4
35°	426.2	423.0	416.5	413.3	411.0
37.5°	406.9	404.1	397.2	394.0	390.7
40°	388.0	384.3	377.4	372.8	370.5
42.5°	367.7	365.9	358.0	352.5	351.1
45°	347.9	344.7	337.3	332.2	330.8
47.5°	327.2	324.9	317.9	312.4	308.7
50°	306.0	304.1	297.7	291.2	288.5
52.5°	285.2	282.9	276.0	270.5	266.8
55°	263.1	261.7	255.3	249.7	247.0
57.5°	242.4	241.0	234.5	229.0	226.2
60°	220.7	218.4	212.4	208.3	206.0
62.5°	199.5	197.7	191.2	187.5	185.2
65°	178.3	176.0	171.4	166.8	164.5
67.5°	156.7	154.8	150.2	145.6	145.1
70°	136.9	133.6	129.9	126.3	124.9
72.5°	115.7	112.4	109.7	106.9	105.5
75°	94.9	92.6	90.3	88.5	88.0
77.5°	74.6	73.7	71.4	71.0	69.6
80°	56.7	55.3	54.4	53.5	53.0
82.5°	39.2	38.7	38.7	38.2	37.8
85°	24.9	24.9	24.0	24.0	23.5
87.5°	12.0	11.5	11.1	11.1	11.1
90°	3.0	13.8	21.7	27.7	29.6
92.5°	14.8	12.8	20.8	26.7	26.7
95°	54.4	20.8	21.7	27.7	28.7
97.5°	103.8	125.5	21.7	26.7	27.7
100°	162.1	179.8	43.5	26.7	27.7
102.5°	227.3	239.1	251.0	28.7	28.7
105°	297.4	303.4	308.3	317.2	281.6
107.5°	361.7	364.6	371.6	376.5	380.5
110°	426.9	429.9	435.8	437.8	440.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.1	496.1	498.0	497.1	501.0
115°	555.4	558.3	557.3	559.3	559.3
117.5°	613.7	617.6	620.6	619.6	619.6
120°	673.0	676.9	675.9	677.9	675.9
122.5°	728.3	730.3	732.2	733.2	731.3
125°	780.7	784.6	782.6	785.6	786.6
127.5°	831.1	832.1	837.0	836.0	835.0
130°	879.5	880.5	883.4	884.4	884.4
132.5°	924.0	925.9	929.9	930.9	929.9
135°	968.4	967.4	971.4	973.4	975.3
137.5°	1007.9	1007.9	1012.9	1014.9	1013.9
140°	1046.5	1048.5	1050.4	1053.4	1054.4
142.5°	1081.1	1085.0	1086.0	1088.0	1088.0
145°	1116.6	1119.6	1119.6	1120.6	1122.6
147.5°	1144.3	1150.2	1149.3	1150.2	1151.2
150°	1175.0	1178.9	1177.9	1177.9	1178.9
152.5°	1200.6	1203.6	1201.6	1203.6	1202.6
155°	1224.4	1225.4	1222.4	1226.3	1223.4
157.5°	1245.1	1245.1	1241.2	1246.1	1241.2
160°	1262.9	1259.9	1258.9	1264.9	1258.9
162.5°	1278.7	1274.8	1273.8	1279.7	1272.8
165°	1291.6	1286.6	1286.6	1294.5	1285.6
167.5°	1302.4	1297.5	1296.5	1305.4	1295.5
170°	1311.3	1305.4	1306.4	1314.3	1304.4
172.5°	1317.3	1311.3	1312.3	1320.2	1309.3
175°	1321.2	1315.3	1316.3	1325.2	1313.3
177.5°	1324.2	1317.3	1319.2	1327.1	1315.3
180°	1321.2	1321.2	1321.2	1321.2	1321.2

(END OF REPORT)