

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: P1025307

Luminaire Tested: S124DIP-B350D1205UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025307
REPORT IS A COMBINATION OF REPORTS P995787 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1205UB27-4F0-XX-W2A-F4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

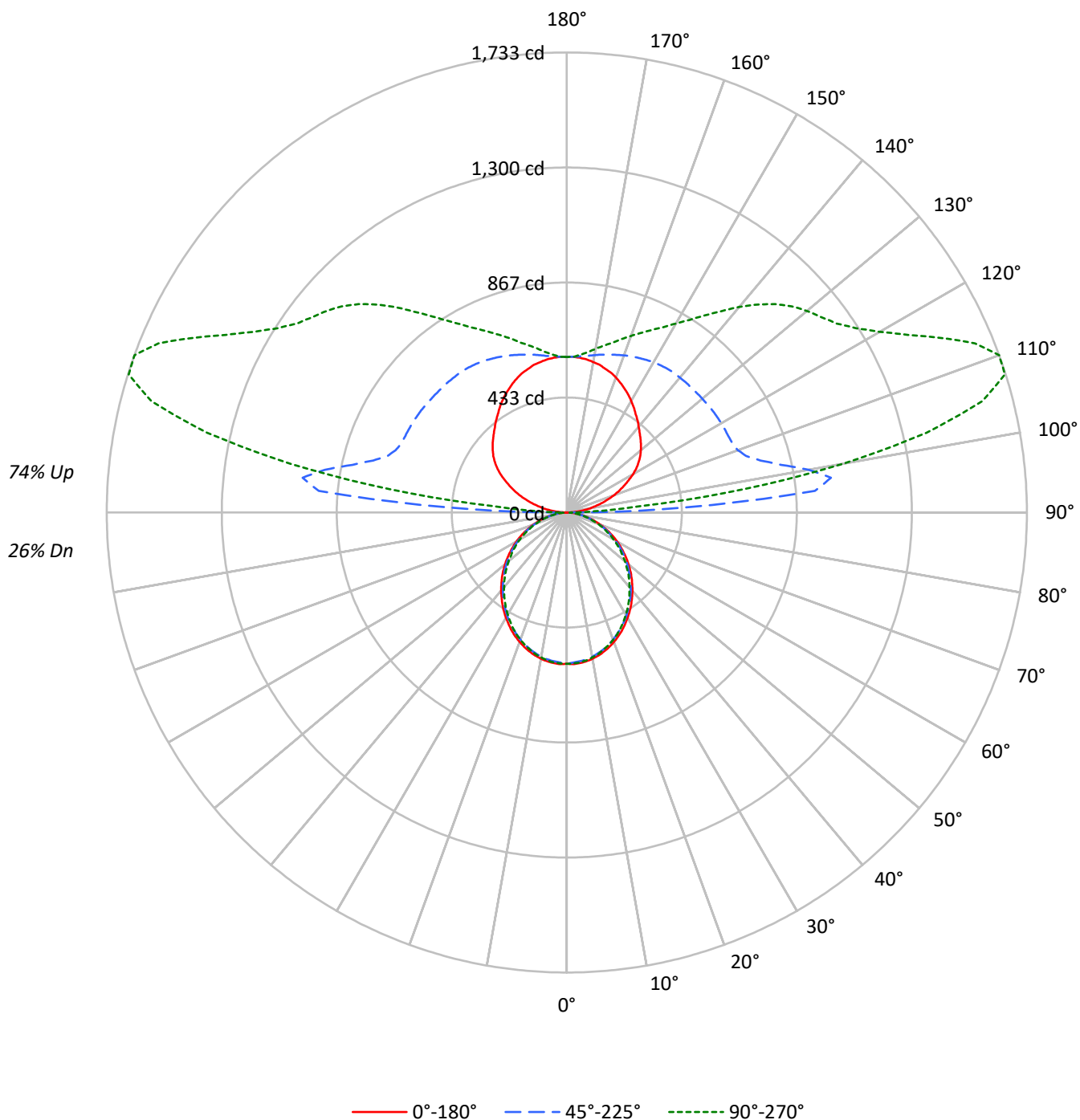
Lumens per Lamp: N/A
Luminaire Lumens: 5741.5 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	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°	4648	4648	4648
5°	4652	4514	4520
10°	4612	4389	4359
15°	4546	4240	4176
20°	4461	4079	3988
25°	4367	3909	3784
30°	4252	3724	3561
35°	4134	3536	3346
40°	4010	3333	3116
45°	3879	3129	2902
50°	3736	2932	2665
55°	3580	2702	2429
60°	3420	2450	2184
65°	3238	2189	1907
70°	3025	1876	1611
75°	2712	1511	1289
80°	2311	1093	907
85°	1797	607	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3879 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	0.9
10°-20°	151.4	2.6
20°-30°	222.8	3.9
30°-40°	258.9	4.5
40°-50°	258.9	4.5
50°-60°	226.5	3.9
60°-70°	168.1	2.9
70°-80°	95.4	1.7
80°-90°	29.6	0.5
90°-100°	435.3	7.6
100°-110°	885.3	15.4
110°-120°	789.1	13.7
120°-130°	662.8	11.5
130°-140°	553.1	9.6
140°-150°	422.4	7.4
150°-160°	296.9	5.2
160°-170°	174.6	3.0
170°-180°	56.8	1.0
0°-30°	427.8	7.5
0°-40°	686.8	12.0
0°-60°	1172.2	20.4
0°-90°	1465.3	25.5
90°-120°	2109.6	36.7
90°-150°	3748.0	65.3
90°-180°	4276.0	74.5
0°-180°	5741.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	570	568	563	568	567	54
15°	542	540	534	536	535	153
25°	491	488	481	482	480	226
35°	422	419	413	410	407	264
45°	345	342	334	329	328	266
55°	261	259	253	248	245	234
65°	177	174	170	165	163	175
75°	94	92	90	88	87	100
85°	25	25	24	24	23	27
90°	1	9	21	23	24	4
95°	38	120	938	464	281	42
105°	135	195	755	1626	1620	143
115°	237	298	674	1294	1555	235
125°	330	392	670	1101	1241	294
135°	393	467	664	977	1110	303
145°	452	518	661	824	906	284
155°	515	555	642	728	759	237
165°	561	578	616	652	662	158
175°	585	586	591	599	596	56
180°	586	586	586	586	586	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.0	570.0	570.0	570.0	570.0
2.5°	571.8	570.5	565.4	570.0	569.5
5°	569.5	567.7	562.7	567.7	566.8
7.5°	565.4	563.6	558.1	562.2	561.8
10°	559.5	557.7	551.7	555.4	554.5
12.5°	551.7	549.9	543.5	547.6	546.2
15°	542.1	540.3	533.5	536.2	534.8
17.5°	531.2	528.9	522.5	524.3	523.4
20°	518.8	516.6	509.7	511.1	510.2
22.5°	505.6	502.4	495.5	498.3	496.5
25°	491.0	487.8	481.4	481.8	480.0
27.5°	474.5	471.3	465.4	464.5	462.2
30°	458.1	454.4	448.5	446.7	444.4
32.5°	440.7	437.5	431.1	428.9	426.6
35°	422.5	419.3	412.9	409.7	407.4
37.5°	403.3	400.5	393.7	390.5	387.3
40°	384.6	380.9	374.1	369.5	367.2
42.5°	364.5	362.6	354.9	349.4	348.0
45°	344.8	341.6	334.3	329.3	327.9
47.5°	324.3	322.0	315.1	309.7	306.0
50°	303.3	301.4	295.0	288.7	285.9
52.5°	282.7	280.4	273.6	268.1	264.4
55°	260.8	259.4	253.0	247.5	244.8
57.5°	240.2	238.9	232.5	227.0	224.3
60°	218.8	216.5	210.6	206.4	204.2
62.5°	197.8	195.9	189.5	185.9	183.6
65°	176.8	174.5	169.9	165.3	163.1
67.5°	155.3	153.5	148.9	144.3	143.9
70°	135.6	132.5	128.8	125.1	123.8
72.5°	114.6	111.4	108.7	106.0	104.6
75°	94.1	91.8	89.5	87.7	87.2
77.5°	74.0	73.1	70.8	70.3	69.0
80°	56.2	54.8	53.9	53.0	52.5
82.5°	38.8	38.4	38.4	37.9	37.5
85°	24.7	24.7	23.7	23.7	23.3
87.5°	11.9	11.4	11.0	11.0	11.0
90°	1.2	9.2	20.7	23.0	24.2
92.5°	16.1	88.6	451.3	149.1	104.8
95°	38.0	119.7	938.2	464.5	280.9
97.5°	63.3	132.4	1003.8	948.6	674.6
100°	87.5	149.6	925.6	1312.4	1055.6
102.5°	110.5	170.4	827.7	1540.3	1387.2
105°	134.7	195.1	755.2	1626.1	1619.7
107.5°	161.2	220.4	708.0	1600.2	1730.3
110°	187.6	245.8	686.1	1508.1	1732.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.0	271.1	675.8	1395.2	1664.6
115°	237.1	297.6	673.5	1294.0	1555.3
117.5°	262.5	322.4	672.3	1214.6	1448.2
120°	287.8	346.5	672.3	1161.0	1360.7
122.5°	310.8	370.2	671.1	1125.8	1291.6
125°	330.4	392.5	670.0	1101.2	1241.0
127.5°	348.8	413.3	667.7	1077.6	1208.8
130°	363.8	433.4	666.5	1049.3	1181.1
132.5°	378.7	450.7	665.4	1015.9	1150.0
135°	392.6	467.4	664.2	977.4	1109.8
137.5°	406.4	481.8	664.2	935.9	1062.6
140°	421.3	495.0	663.1	895.6	1010.8
142.5°	437.5	507.1	663.1	858.2	955.5
145°	452.4	518.0	660.8	824.2	906.0
147.5°	469.7	528.4	657.3	796.0	859.9
150°	485.8	538.2	653.9	770.2	822.0
152.5°	500.8	547.4	648.1	748.2	787.4
155°	514.6	555.4	642.4	727.6	758.6
157.5°	528.4	562.9	636.6	708.0	732.2
160°	541.1	569.2	629.7	688.4	708.0
162.5°	552.6	574.4	622.8	669.4	685.0
165°	560.6	577.9	615.9	652.2	661.9
167.5°	569.8	580.8	609.0	637.2	643.5
170°	575.6	583.1	602.1	622.2	626.3
172.5°	581.4	584.8	595.2	609.0	609.0
175°	584.8	586.0	590.6	598.6	596.3
177.5°	587.1	586.0	587.1	591.2	587.1
180°	586.0	586.0	586.0	586.0	586.0

(END OF REPORT)