

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: P1025313

Luminaire Tested: S124DIP-B350D1205UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025313
REPORT IS A COMBINATION OF REPORTS P995808 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1205UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

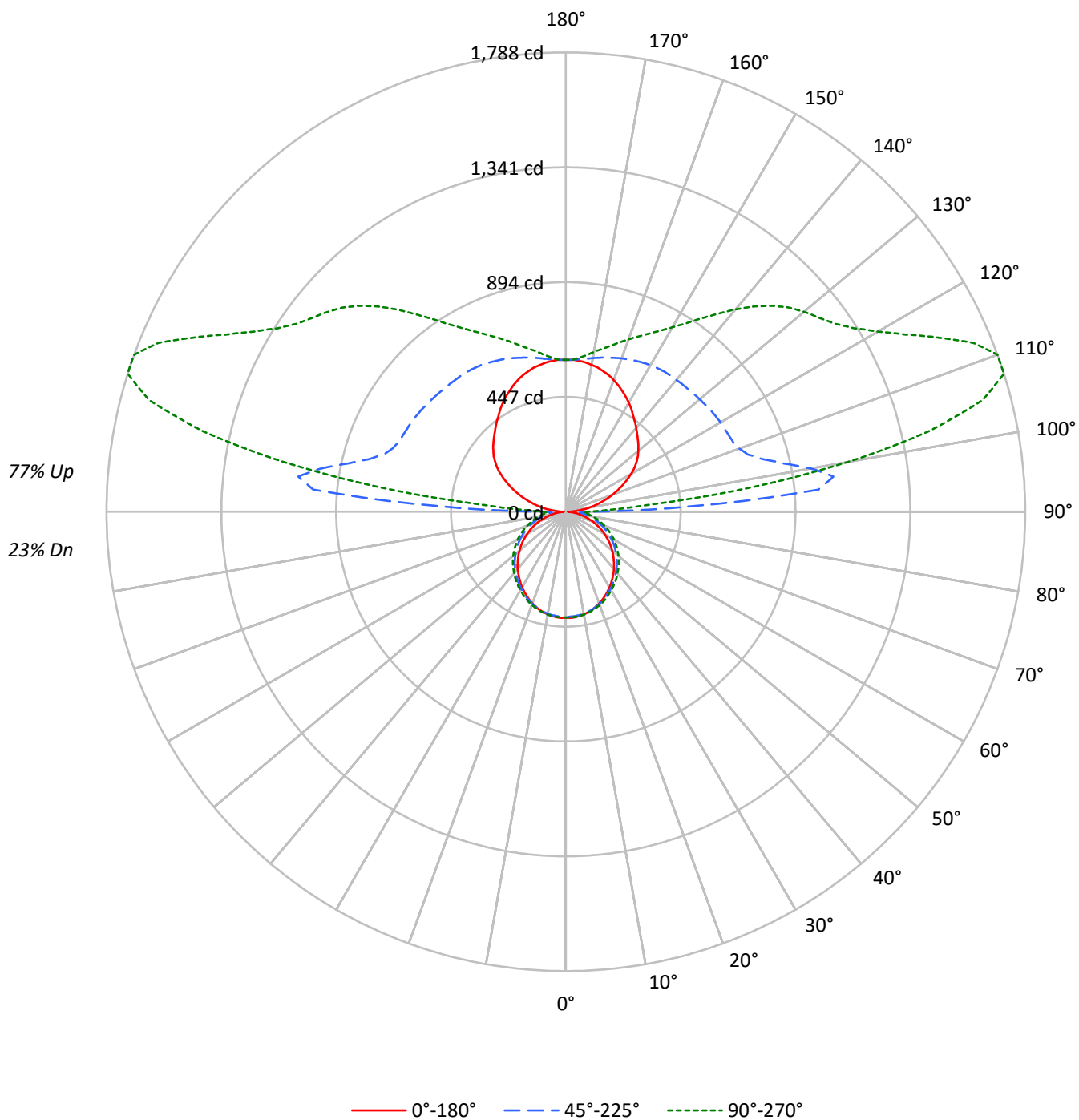
Lumens per Lamp: N/A
Luminaire Lumens: 5718.6 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	31	31	23
1	91	87	83	79	81	77	74	71	59	57	55	42	41	40	27	26	25	25	25	18
2	83	76	69	64	73	67	62	58	51	48	45	37	34	33	23	22	21	21	21	15
3	75	66	59	53	66	59	53	48	45	41	37	32	30	27	20	19	18	18	18	12
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	16	15	15	15	10
5	63	52	44	38	55	46	39	34	35	31	27	25	22	20	16	14	13	13	13	9
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	15	13	11	11	11	8
7	53	41	34	28	47	37	30	26	29	24	20	21	17	15	13	11	10	10	10	7
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	12	10	9	9	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	8	8	5
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	8	7	7	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3356	3356	3356
5°	3365	3268	3274
10°	3343	3204	3194
15°	3312	3132	3105
20°	3265	3054	3018
25°	3213	2967	2925
30°	3157	2881	2829
35°	3093	2794	2744
40°	3041	2710	2656
45°	2966	2631	2577
50°	2901	2542	2495
55°	2833	2455	2400
60°	2729	2348	2311
65°	2617	2233	2205
70°	2479	2100	2080
75°	2285	1954	1962
80°	2065	1803	1838
85°	1776	1653	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.7
10°-20°	111.7	2.0
20°-30°	168.9	3.0
30°-40°	204.4	3.6
40°-50°	216.0	3.8
50°-60°	203.3	3.6
60°-70°	168.7	3.0
70°-80°	118.4	2.1
80°-90°	69.0	1.2
90°-100°	478.8	8.4
100°-110°	922.4	16.1
110°-120°	815.7	14.3
120°-130°	679.7	11.9
130°-140°	562.7	9.8
140°-150°	427.0	7.5
150°-160°	299.5	5.2
160°-170°	176.2	3.1
170°-180°	57.3	1.0
0°-30°	319.6	5.6
0°-40°	524.0	9.2
0°-60°	943.3	16.5
0°-90°	1299.5	22.7
90°-120°	2216.8	38.8
90°-150°	3886.2	68.0
90°-180°	4419.0	77.3
0°-180°	5718.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	412	411	407	411	411	39
15°	395	395	394	398	398	111
25°	361	364	365	370	371	166
35°	316	322	326	333	334	198
45°	264	272	281	289	291	204
55°	206	216	230	239	242	184
65°	143	158	173	185	188	142
75°	79	96	116	129	133	84
85°	24	44	64	78	83	25
90°	9	35	66	82	87	8
95°	44	142	986	521	340	47
105°	140	210	792	1682	1679	149
115°	242	307	701	1337	1604	240
125°	335	397	689	1132	1276	299
135°	397	472	674	997	1134	307
145°	457	523	666	834	918	287
155°	519	560	648	734	765	239
165°	566	583	621	658	668	160
175°	590	591	596	604	602	56
180°	591	591	591	591	591	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.5	411.5	411.5	411.5	411.5
2.5°	413.4	412.0	408.3	411.5	411.0
5°	412.0	410.6	407.4	411.0	410.6
7.5°	409.2	408.3	405.5	409.7	409.2
10°	405.5	405.1	402.8	406.9	406.4
12.5°	400.4	400.4	399.1	402.8	402.8
15°	394.9	395.4	394.0	398.1	397.7
17.5°	387.5	388.9	388.5	392.6	392.2
20°	379.7	381.1	381.6	386.2	386.2
22.5°	371.0	372.8	373.7	378.3	379.3
25°	361.3	364.0	365.4	370.5	371.0
27.5°	350.7	354.8	356.7	361.3	361.7
30°	340.1	343.8	347.0	352.1	353.0
32.5°	328.6	333.2	336.9	342.8	343.8
35°	316.1	321.6	326.3	332.7	334.1
37.5°	303.7	310.1	315.7	322.1	323.5
40°	291.7	297.7	304.1	311.1	312.9
42.5°	277.9	284.8	292.6	300.5	301.8
45°	263.6	272.3	281.1	288.9	291.2
47.5°	250.2	259.0	269.1	277.0	279.7
50°	235.5	245.6	255.8	265.0	267.7
52.5°	220.7	230.9	242.8	252.1	254.8
55°	206.4	216.1	229.9	239.2	241.9
57.5°	190.3	202.3	215.7	226.7	229.0
60°	174.6	186.6	201.8	212.4	216.1
62.5°	159.4	172.8	188.0	198.6	202.3
65°	142.9	157.6	173.3	184.8	188.5
67.5°	127.2	142.9	159.4	171.0	174.6
70°	111.1	126.7	144.2	156.7	159.9
72.5°	95.4	111.5	130.4	142.4	146.1
75°	79.3	96.3	115.7	128.6	132.7
77.5°	64.1	82.0	102.3	115.2	119.8
80°	50.2	68.7	88.9	102.8	106.4
82.5°	36.4	55.8	76.0	90.3	94.5
85°	24.4	43.8	64.5	78.3	82.9
87.5°	15.2	34.1	54.4	67.7	71.9
90°	8.6	35.1	66.5	82.2	87.1
92.5°	23.2	112.4	498.1	206.2	165.1
95°	44.3	142.0	986.5	521.0	340.0
97.5°	69.4	152.4	1050.3	1006.6	734.3
100°	93.3	168.0	968.6	1371.2	1115.5
102.5°	116.6	187.0	867.6	1598.4	1447.6
105°	140.0	210.2	792.1	1682.1	1679.4
107.5°	166.7	234.4	742.2	1653.6	1788.1
110°	193.0	258.0	718.4	1558.1	1788.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.0	282.3	705.6	1441.4	1716.9
115°	242.0	307.0	701.0	1337.0	1603.7
117.5°	267.5	330.6	697.5	1254.0	1493.5
120°	292.6	353.2	695.2	1197.4	1402.5
122.5°	315.8	375.6	691.7	1159.6	1330.0
125°	335.1	397.3	688.7	1132.4	1276.1
127.5°	353.6	418.2	684.1	1105.8	1241.3
130°	368.3	438.0	680.6	1075.0	1210.8
132.5°	383.4	455.5	677.7	1039.0	1177.1
135°	396.9	472.3	674.1	997.4	1133.7
137.5°	410.8	486.4	672.3	953.2	1083.3
140°	425.9	499.8	669.7	910.3	1028.7
142.5°	441.7	512.0	668.8	870.8	970.7
145°	456.8	522.6	666.5	834.2	918.4
147.5°	474.3	533.0	663.0	803.4	869.7
150°	490.5	542.8	659.5	776.8	829.1
152.5°	505.1	552.2	653.7	754.8	794.2
155°	519.0	560.3	647.9	733.8	765.2
157.5°	533.0	567.8	642.1	714.1	738.5
160°	545.8	574.2	635.2	694.4	714.1
162.5°	557.4	579.4	628.2	675.2	690.9
165°	565.5	582.9	621.2	657.8	667.7
167.5°	574.8	585.8	614.3	642.8	649.1
170°	580.6	588.2	607.3	627.6	631.7
172.5°	586.4	589.8	600.3	614.2	614.3
175°	589.9	591.0	595.7	603.8	601.5
177.5°	592.2	591.0	592.2	596.2	592.2
180°	591.0	591.0	591.0	591.0	591.0

(END OF REPORT)