

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: P1025358

Luminaire Tested: S124DIP-B350D365UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025358
REPORT IS A COMBINATION OF REPORTS P995868 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D365UB30-4F0-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

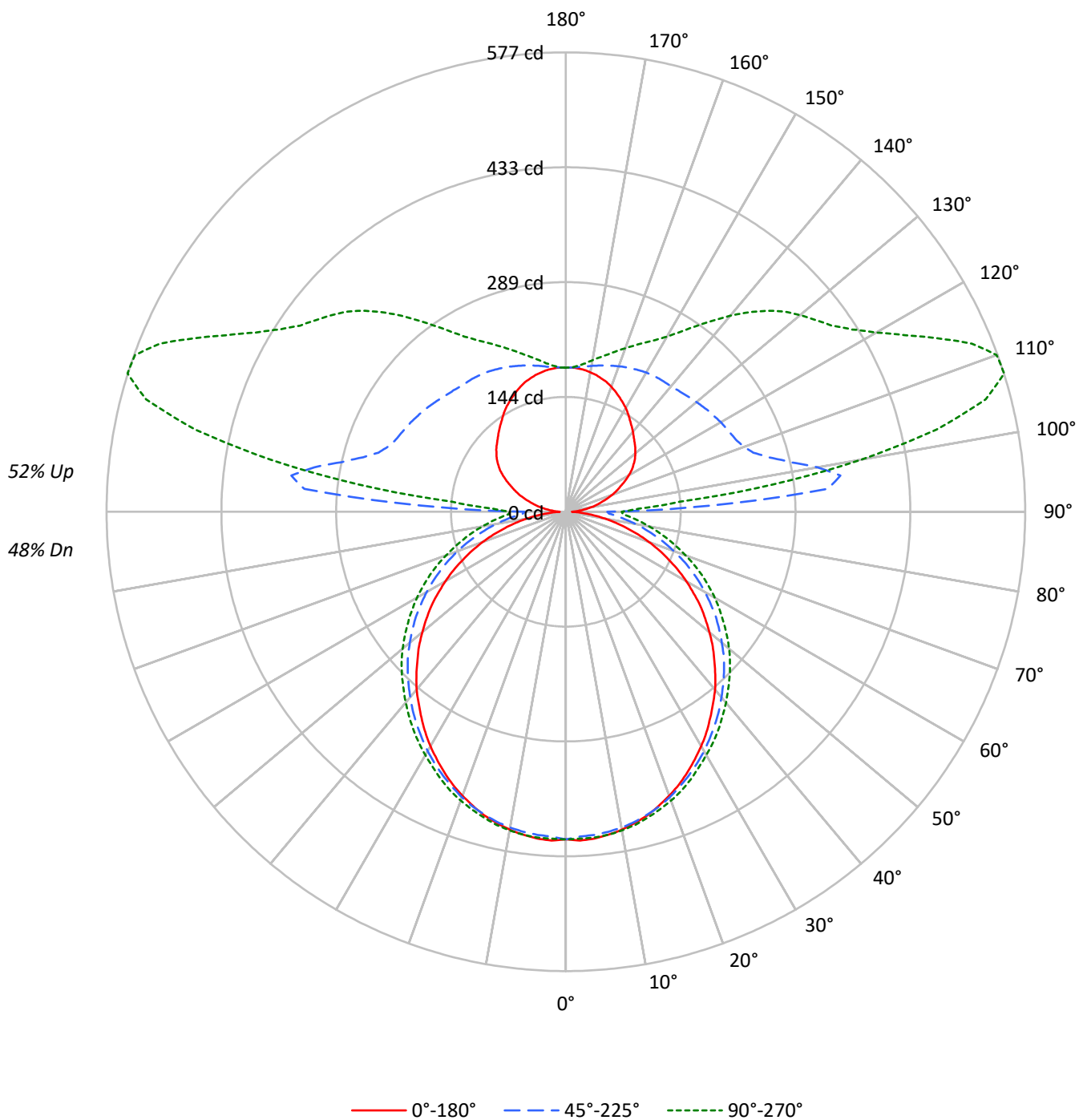
Lumens per Lamp: N/A
Luminaire Lumens: 2724.7 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	96	92	87	83	88	84	81	77	70	68	65	58	56	54	46	45	44
2	87	79	73	67	80	73	67	63	61	57	53	50	47	44	40	38	36
3	79	69	62	56	72	64	57	52	54	49	44	44	40	37	35	32	30
4	72	61	53	47	66	56	49	44	47	42	37	39	35	31	31	28	26
5	66	54	46	40	61	50	43	37	42	36	32	35	30	27	28	25	22
6	61	49	40	34	56	45	38	32	38	32	28	31	27	24	25	22	19
7	56	44	36	30	52	41	33	28	34	29	24	28	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	23	45	34	27	22	29	23	19	24	20	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

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	1.4
10°-20°	111.7	4.1
20°-30°	168.9	6.2
30°-40°	204.4	7.5
40°-50°	216.0	7.9
50°-60°	203.3	7.5
60°-70°	168.7	6.2
70°-80°	118.4	4.3
80°-90°	67.4	2.5
90°-100°	174.2	6.4
100°-110°	302.9	11.1
110°-120°	263.5	9.7
120°-130°	215.9	7.9
130°-140°	175.7	6.4
140°-150°	131.4	4.8
150°-160°	91.7	3.4
160°-170°	53.9	2.0
170°-180°	17.5	0.6
0°-30°	319.6	11.7
0°-40°	524.0	19.2
0°-60°	943.3	34.6
0°-90°	1297.9	47.6
90°-120°	740.6	27.2
90°-150°	1263.6	46.4
90°-180°	1427.0	52.4
0°-180°	2724.7	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°	8	29	52	66	70	6
95°	18	58	330	196	144	18
105°	46	74	264	544	546	49
115°	76	99	230	432	515	76
125°	104	123	220	362	408	93
135°	122	145	209	313	357	95
145°	140	160	204	257	284	88
155°	159	172	198	225	234	73
165°	173	178	190	201	204	49
175°	181	181	182	185	184	17
180°	181	181	181	181	181	

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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°	7.8	28.6	52.0	66.1	70.2
92.5°	11.9	50.4	182.3	101.8	91.8
95°	17.7	58.2	329.9	196.0	143.5
97.5°	25.1	59.8	347.9	342.8	262.3
100°	32.1	63.3	320.9	452.8	376.8
102.5°	39.2	67.8	288.4	520.5	476.9
105°	45.7	73.6	263.7	544.2	545.9
107.5°	53.9	80.1	246.8	533.9	577.4
110°	61.7	86.0	238.2	502.8	575.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.0	92.5	232.7	465.1	552.0
115°	76.1	98.8	229.7	431.5	515.4
117.5°	83.9	105.0	227.1	404.2	480.1
120°	91.2	110.8	224.8	385.0	450.3
122.5°	98.3	116.6	222.0	371.8	426.2
125°	103.9	122.6	219.9	361.8	407.7
127.5°	109.5	129.0	216.9	351.8	395.5
130°	113.8	134.8	214.2	340.8	384.3
132.5°	118.4	140.1	212.0	328.1	372.3
135°	122.2	145.3	209.3	313.4	357.1
137.5°	126.4	149.4	207.5	298.3	339.7
140°	131.1	153.4	205.7	283.5	321.4
142.5°	135.6	157.1	204.8	270.2	302.1
145°	140.3	160.0	204.1	257.4	284.5
147.5°	145.6	163.2	203.1	246.4	267.9
150°	150.6	166.2	202.0	237.9	253.9
152.5°	154.7	169.1	200.2	231.2	243.2
155°	159.0	171.6	198.4	224.8	234.3
157.5°	163.2	173.9	196.6	218.7	226.2
160°	167.1	175.9	194.5	212.6	218.7
162.5°	170.7	177.4	192.4	206.8	211.6
165°	173.2	178.5	190.2	201.4	204.5
167.5°	176.0	179.4	188.1	196.9	198.8
170°	177.8	180.1	186.0	192.2	193.4
172.5°	179.6	180.6	183.8	188.2	188.1
175°	180.6	181.0	182.4	184.9	184.2
177.5°	181.4	181.0	181.4	182.6	181.4
180°	181.0	181.0	181.0	181.0	181.0

(END OF REPORT)