

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: P1025609

Luminaire Tested: S124DIP-B575D365UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025609
REPORT IS A COMBINATION OF REPORTS P996194 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB50-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

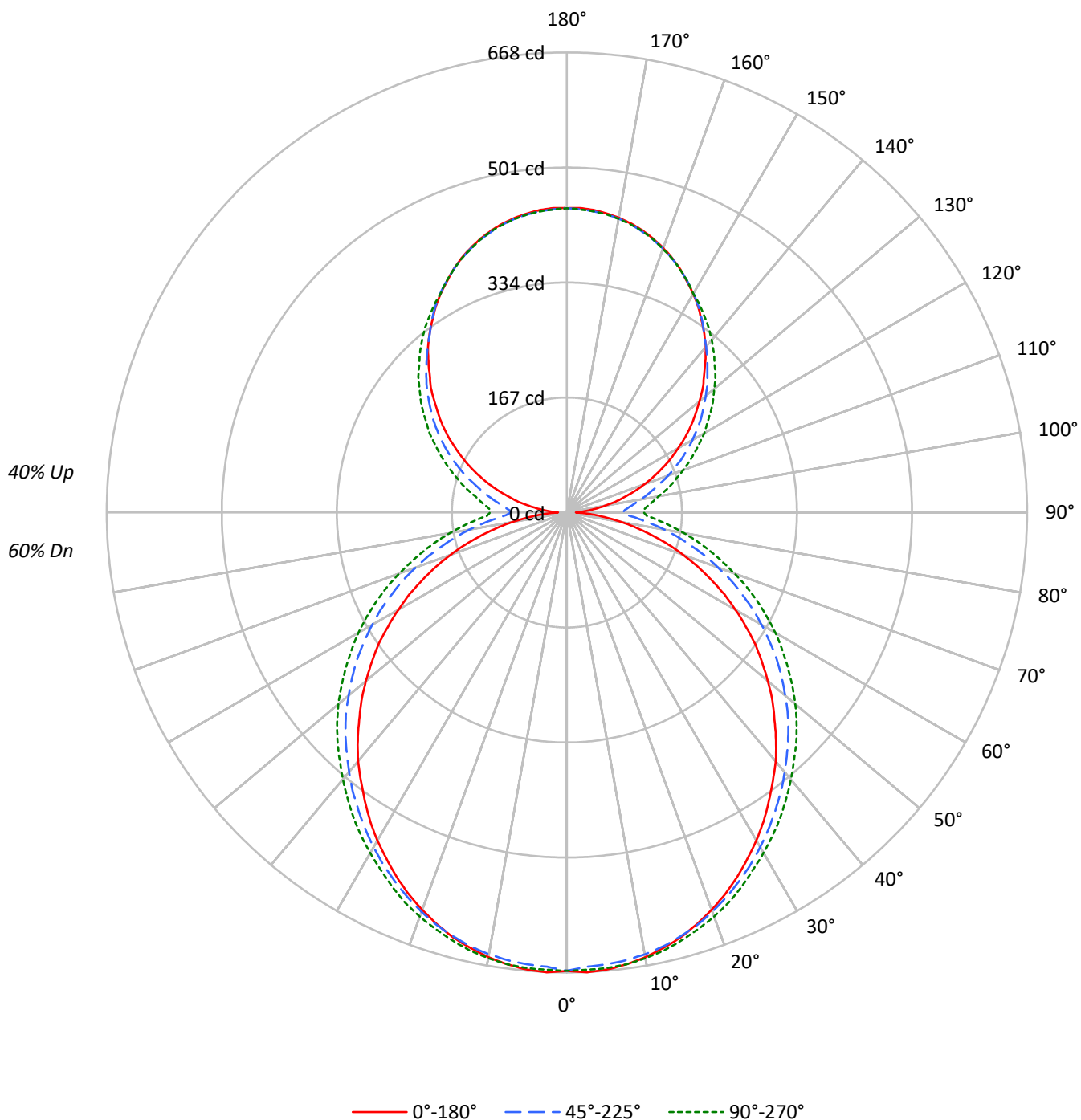
Lumens per Lamp: N/A
Luminaire Lumens: 3496.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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
RCR																	
0	110	110	110	110	102	102	102	102	89	89	89		77	77	77		65
1	99	94	89	86	92	88	84	80	76	73	71		66	63	61		56
2	89	81	75	69	83	76	70	65	66	61	57		57	53	50		48
3	81	71	63	57	75	66	59	54	58	52	48		50	46	42		42
4	74	63	54	48	69	59	51	45	51	45	40		44	39	36		38
5	68	56	47	41	63	52	44	39	46	39	35		40	35	31		34
6	63	50	41	35	58	47	39	33	41	35	30		36	31	27		31
7	58	45	37	31	54	42	35	29	37	31	26		32	27	24		28
8	54	41	33	27	50	38	31	26	34	28	23		30	25	21		26
9	50	37	29	24	47	35	28	23	31	25	21		27	22	19		24
10	47	34	27	22	44	32	25	21	29	23	19		25	20	17		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5427	5427	5427
5°	5442	5285	5295
10°	5406	5182	5167
15°	5356	5065	5022
20°	5281	4938	4881
25°	5197	4798	4729
30°	5105	4660	4575
35°	5001	4518	4437
40°	4918	4383	4294
45°	4796	4255	4168
50°	4691	4111	4036
55°	4583	3972	3883
60°	4416	3798	3738
65°	4230	3611	3565
70°	4007	3397	3364
75°	3694	3160	3173
80°	3340	2916	2975
85°	2874	2673	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.8
10°-20°	180.7	5.2
20°-30°	273.2	7.8
30°-40°	330.5	9.5
40°-50°	349.4	10.0
50°-60°	328.8	9.4
60°-70°	272.9	7.8
70°-80°	191.5	5.5
80°-90°	108.9	3.1
90°-100°	93.1	2.7
100°-110°	133.9	3.8
110°-120°	178.5	5.1
120°-130°	211.3	6.0
130°-140°	224.9	6.4
140°-150°	214.9	6.1
150°-160°	179.5	5.1
160°-170°	119.4	3.4
170°-180°	41.8	1.2
0°-30°	516.9	14.8
0°-40°	847.4	24.2
0°-60°	1525.6	43.6
0°-90°	2098.9	60.0
90°-120°	405.4	11.6
90°-150°	1056.5	30.2
90°-180°	1397.0	40.0
0°-180°	3496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	664	659	665	664	63
15°	639	639	637	644	643	180
25°	584	589	591	599	600	269
35°	511	520	528	538	540	320
45°	426	440	455	467	471	329
55°	334	350	372	387	391	298
65°	231	255	280	299	305	229
75°	128	156	187	208	215	136
85°	40	71	104	127	134	41
90°	13	46	81	105	112	10
95°	30	58	91	112	119	30
105°	86	102	130	150	157	92
115°	154	160	183	199	204	152
125°	220	219	238	251	255	196
135°	281	283	289	300	303	218
145°	341	341	342	346	348	213
155°	390	390	389	391	389	179
165°	424	423	422	424	423	120
175°	441	440	439	442	439	42
180°	442	442	442	442	442	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.5	665.5	665.5	665.5	665.5
2.5°	668.5	666.3	660.3	665.5	664.8
5°	666.3	664.0	658.8	664.8	664.0
7.5°	661.8	660.3	655.8	662.5	661.8
10°	655.8	655.1	651.4	658.1	657.3
12.5°	647.6	647.6	645.4	651.4	651.4
15°	638.7	639.4	637.2	643.9	643.2
17.5°	626.8	629.0	628.2	635.0	634.2
20°	614.1	616.3	617.1	624.5	624.5
22.5°	599.9	602.9	604.4	611.9	613.3
25°	584.3	588.7	591.0	599.2	599.9
27.5°	567.1	573.8	576.8	584.3	585.0
30°	550.0	556.0	561.2	569.4	570.9
32.5°	531.4	538.8	544.8	554.5	556.0
35°	511.2	520.2	527.6	538.1	540.3
37.5°	491.1	501.6	510.5	520.9	523.2
40°	471.7	481.4	491.9	503.0	506.0
42.5°	449.4	460.6	473.2	485.9	488.1
45°	426.3	440.4	454.6	467.3	471.0
47.5°	404.7	418.8	435.2	447.9	452.4
50°	380.8	397.2	413.6	428.5	433.0
52.5°	357.0	373.4	392.7	407.7	412.1
55°	333.9	349.5	371.9	386.8	391.3
57.5°	307.8	327.2	348.8	366.7	370.4
60°	282.5	301.8	326.4	343.6	349.5
62.5°	257.9	279.5	304.1	321.2	327.2
65°	231.0	254.9	280.2	298.8	304.8
67.5°	205.7	231.0	257.9	276.5	282.5
70°	179.6	204.9	233.3	253.4	258.6
72.5°	154.3	180.4	210.9	230.3	236.2
75°	128.2	155.8	187.1	207.9	214.6
77.5°	103.6	132.7	165.4	186.3	193.8
80°	81.2	111.0	143.8	166.2	172.2
82.5°	58.9	90.2	123.0	146.1	152.8
85°	39.5	70.8	104.3	126.7	134.1
87.5°	24.6	55.1	87.9	109.6	116.3
90°	12.9	46.5	81.3	105.0	111.7
92.5°	20.1	50.6	84.3	106.3	112.5
95°	30.2	57.9	90.8	112.0	118.7
97.5°	41.7	66.1	99.4	120.1	126.8
100°	56.0	76.8	108.9	129.8	135.0
102.5°	71.8	88.5	119.5	140.0	146.3
105°	86.3	101.6	130.5	150.2	157.2
107.5°	103.1	116.1	142.6	162.5	167.4
110°	119.5	130.5	156.3	172.7	179.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.4	145.4	169.3	185.6	191.6
115°	153.5	160.2	183.3	199.4	204.2
117.5°	170.2	174.6	196.7	211.4	216.3
120°	186.2	189.9	210.4	223.6	230.2
122.5°	203.6	204.0	223.7	237.7	241.2
125°	220.0	219.2	237.6	251.0	254.8
127.5°	235.4	235.6	249.8	262.6	267.5
130°	251.0	251.3	263.2	275.9	279.1
132.5°	267.7	267.7	276.3	288.3	292.5
135°	281.4	283.4	288.6	299.9	303.3
137.5°	297.5	297.7	301.4	311.5	315.6
140°	313.5	313.4	314.2	323.6	326.9
142.5°	327.4	328.1	327.1	335.3	338.3
145°	340.7	341.4	341.7	345.9	347.9
147.5°	354.4	355.4	355.1	355.4	358.1
150°	366.7	367.4	367.4	367.4	367.0
152.5°	377.6	378.3	378.7	379.7	378.7
155°	389.6	389.6	389.3	390.6	389.3
157.5°	399.8	399.2	399.2	400.2	399.2
160°	408.7	408.4	408.0	409.1	407.4
162.5°	416.9	415.9	415.6	417.6	415.9
165°	424.1	423.1	422.4	424.5	423.1
167.5°	429.9	428.6	428.6	430.6	428.6
170°	434.7	433.0	433.3	435.4	433.0
172.5°	438.1	436.8	436.8	439.1	436.8
175°	441.2	439.5	439.1	441.5	439.1
177.5°	442.6	440.9	440.9	443.2	440.5
180°	441.9	441.9	441.9	441.9	441.9

(END OF REPORT)