

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: P1025572

Luminaire Tested: S124DIP-B575D365UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025572
REPORT IS A COMBINATION OF REPORTS P996142 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

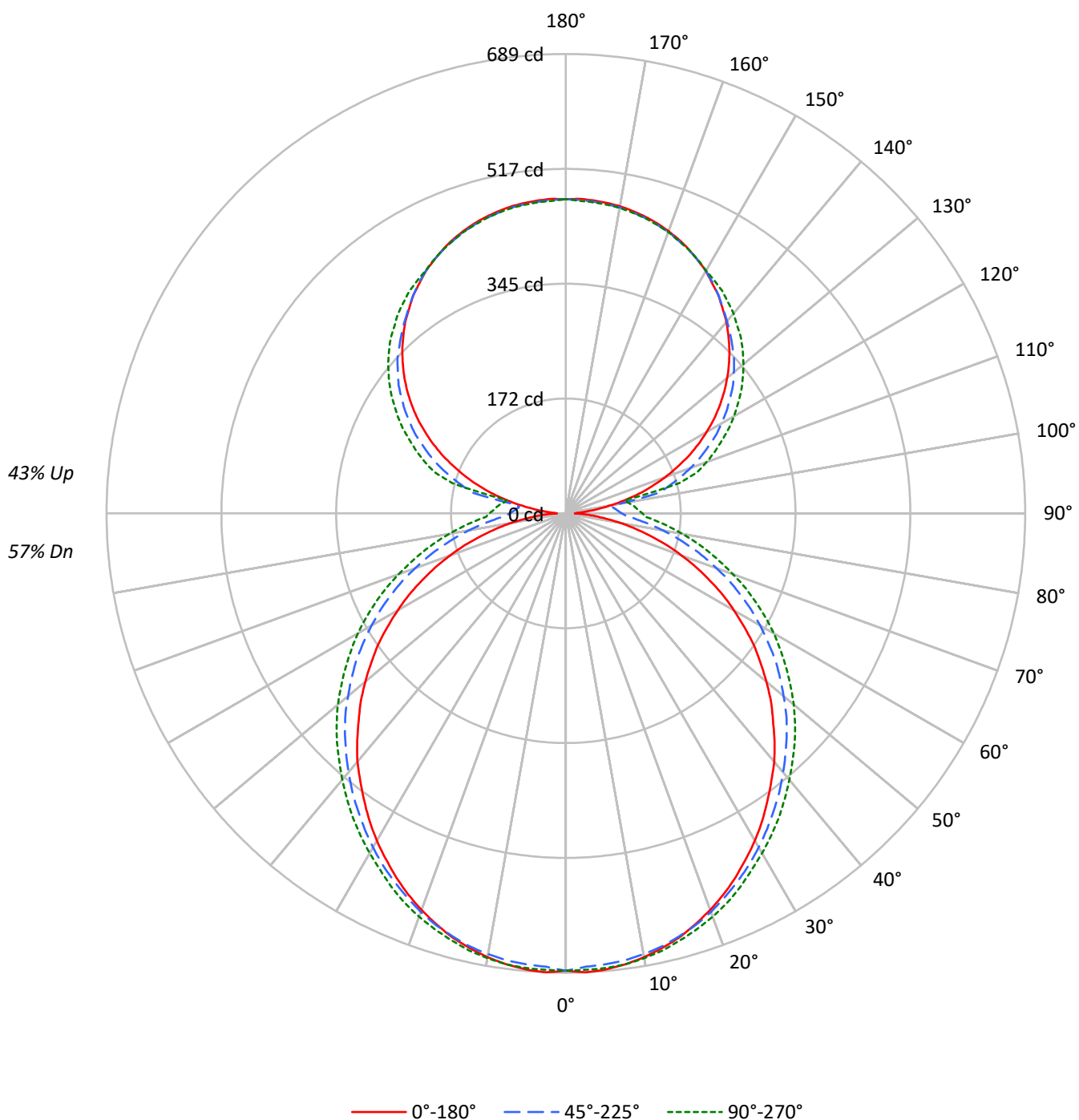
Lumens per Lamp: N/A
Luminaire Lumens: 3798.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1025572

CATALOG NUMBER: S124DIP-B575D365UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1025572

CATALOG NUMBER: S124DIP-B575D365UB27-4F0-XX-W2A-D

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63
1	98	93	89	85	91	87	83	80	75	72	69	64	62	60	53	52	51
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	42
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	41	38	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	35	36	33	30
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	35	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	27	23	27	23	20
8	53	41	32	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	20	26	22	18	23	19	16
10	46	34	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5594	5594	5594
5°	5610	5448	5458
10°	5574	5341	5326
15°	5521	5220	5177
20°	5444	5090	5032
25°	5357	4946	4875
30°	5263	4804	4716
35°	5156	4658	4574
40°	5070	4518	4427
45°	4944	4387	4297
50°	4836	4238	4161
55°	4725	4094	4002
60°	4552	3915	3854
65°	4362	3723	3675
70°	4130	3502	3469
75°	3807	3256	3272
80°	3442	3008	3066
85°	2962	2757	2899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4944 cd/sqm

TEST NUMBER: P1025572

CATALOG NUMBER: S124DIP-B575D365UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.7
10°-20°	186.2	4.9
20°-30°	281.6	7.4
30°-40°	340.7	9.0
40°-50°	360.2	9.5
50°-60°	339.0	8.9
60°-70°	281.3	7.4
70°-80°	197.4	5.2
80°-90°	112.3	3.0
90°-100°	81.9	2.2
100°-110°	152.1	4.0
110°-120°	229.6	6.0
120°-130°	268.2	7.1
130°-140°	275.1	7.2
140°-150°	251.4	6.6
150°-160°	201.4	5.3
160°-170°	129.9	3.4
170°-180°	44.8	1.2
0°-30°	532.8	14.0
0°-40°	873.5	23.0
0°-60°	1572.7	41.4
0°-90°	2163.6	57.0
90°-120°	463.6	12.2
90°-150°	1258.3	33.1
90°-180°	1634.0	43.0
0°-180°	3798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	687	684	679	685	684	65
15°	658	659	657	664	663	186
25°	602	607	609	618	618	277
35°	527	536	544	555	557	330
45°	439	454	469	482	486	340
55°	344	360	383	399	403	307
65°	238	263	289	308	314	236
75°	132	161	193	214	221	140
85°	41	73	108	131	138	42
90°	13	48	84	108	115	9
95°	29	43	75	98	105	32
105°	113	130	161	183	176	119
115°	203	211	235	252	258	200
125°	282	282	301	316	321	252
135°	347	346	353	366	372	268
145°	399	399	399	404	408	249
155°	437	437	436	437	436	201
165°	461	459	459	462	458	130
175°	471	469	469	473	468	45
180°	471	471	471	471	471	

TEST NUMBER: P1025572

CATALOG NUMBER: S124DIP-B575D365UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.0	686.0	686.0	686.0	686.0
2.5°	689.1	686.8	680.7	686.0	685.3
5°	686.8	684.5	679.1	685.3	684.5
7.5°	682.2	680.7	676.1	683.0	682.2
10°	676.1	675.3	671.4	678.4	677.6
12.5°	667.6	667.6	665.3	671.4	671.4
15°	658.4	659.2	656.8	663.8	663.0
17.5°	646.1	648.4	647.6	654.5	653.8
20°	633.0	635.3	636.1	643.8	643.8
22.5°	618.4	621.5	623.0	630.7	632.3
25°	602.3	606.9	609.2	617.7	618.4
27.5°	584.6	591.5	594.6	602.3	603.1
30°	567.0	573.1	578.5	586.9	588.5
32.5°	547.8	555.4	561.6	571.6	573.1
35°	527.0	536.2	543.9	554.7	557.0
37.5°	506.3	517.0	526.2	537.0	539.3
40°	486.3	496.3	507.0	518.6	521.6
42.5°	463.3	474.8	487.8	500.9	503.2
45°	439.4	454.0	468.6	481.7	485.5
47.5°	417.2	431.8	448.7	461.7	466.3
50°	392.6	409.5	426.4	441.7	446.4
52.5°	368.0	384.9	404.9	420.2	424.8
55°	344.2	360.3	383.4	398.7	403.3
57.5°	317.3	337.3	359.5	378.0	381.8
60°	291.2	311.1	336.5	354.2	360.3
62.5°	265.8	288.1	313.4	331.1	337.3
65°	238.2	262.7	288.9	308.1	314.2
67.5°	212.0	238.2	265.8	285.0	291.2
70°	185.1	211.3	240.5	261.2	266.6
72.5°	159.0	185.9	217.4	237.4	243.5
75°	132.1	160.6	192.8	214.3	221.3
77.5°	106.8	136.7	170.6	192.1	199.7
80°	83.7	114.5	148.3	171.3	177.5
82.5°	60.7	93.0	126.8	150.6	157.5
85°	40.7	73.0	107.6	130.6	138.3
87.5°	25.4	56.9	90.7	112.9	119.8
90°	13.4	47.9	83.9	108.2	115.1
92.5°	16.8	43.0	78.8	102.5	108.6
95°	29.4	42.7	74.6	97.5	104.7
97.5°	46.2	76.3	70.8	92.5	99.8
100°	66.3	92.5	73.9	88.6	94.4
102.5°	89.6	110.7	144.0	84.7	90.9
105°	113.0	130.5	160.7	183.0	176.5
107.5°	135.9	150.0	179.4	200.4	207.1
110°	158.3	170.2	199.2	217.6	224.8



TEST NUMBER: P1025572

CATALOG NUMBER: S124DIP-B575D365UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.2	191.5	217.5	234.2	241.7
115°	202.7	210.6	234.9	252.5	257.9
117.5°	223.5	229.5	253.6	269.4	275.5
120°	243.8	247.5	269.5	285.6	291.0
122.5°	263.5	264.2	285.7	301.4	306.1
125°	281.5	282.1	300.6	316.3	321.2
127.5°	299.5	299.0	316.2	329.6	334.7
130°	316.0	315.5	328.9	343.1	347.7
132.5°	331.8	331.7	342.4	355.8	360.0
135°	346.9	346.5	353.3	366.3	371.6
137.5°	361.0	360.3	365.0	377.3	380.8
140°	374.7	374.7	376.1	387.2	391.4
142.5°	386.4	387.8	387.3	396.5	399.5
145°	399.0	399.3	399.3	404.2	408.1
147.5°	408.9	410.2	409.9	411.0	414.4
150°	419.8	420.4	420.1	420.1	420.4
152.5°	428.2	429.3	428.5	429.3	428.9
155°	436.7	437.0	435.9	437.4	436.3
157.5°	444.1	444.1	442.6	444.4	442.6
160°	450.4	449.3	449.0	451.1	449.0
162.5°	456.0	454.6	454.3	456.4	453.9
165°	460.6	458.9	458.9	461.7	458.5
167.5°	464.5	462.7	462.4	465.6	462.0
170°	467.7	465.6	465.9	468.7	465.2
172.5°	469.8	467.7	468.0	470.8	467.0
175°	471.2	469.1	469.4	472.6	468.4
177.5°	472.2	469.8	470.5	473.3	469.1
180°	471.2	471.2	471.2	471.2	471.2

(END OF REPORT)