

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: P1025576

Luminaire Tested: S124DIP-B575D365UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025576
REPORT IS A COMBINATION OF REPORTS P996146 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-F1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

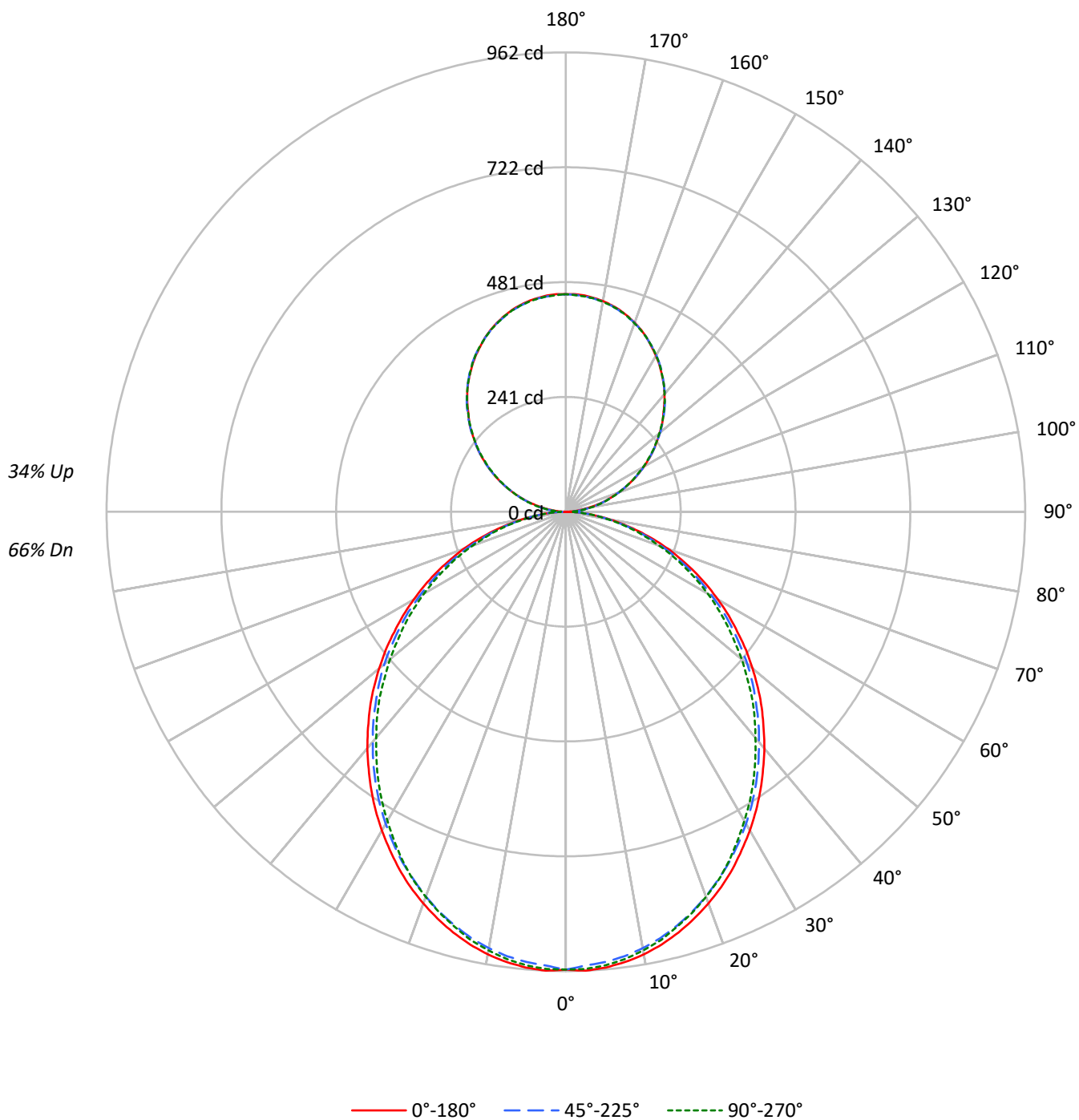
Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	63	61	60
2	92	85	78	73	87	80	74	69	71	67	63	63	59	56	55	53	50
3	84	74	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37
5	71	59	50	44	66	56	48	43	50	44	39	44	39	36	39	35	32
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28
7	61	48	40	34	57	45	38	33	41	35	30	37	32	28	33	28	25
8	56	44	36	30	53	41	34	29	37	31	27	34	28	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7819	7819	7819
5°	7826	7594	7603
10°	7759	7383	7331
15°	7648	7133	7025
20°	7506	6861	6708
25°	7345	6575	6366
30°	7153	6265	5990
35°	6953	5948	5628
40°	6745	5607	5242
45°	6527	5265	4882
50°	6284	4933	4482
55°	6022	4545	4086
60°	5753	4121	3673
65°	5445	3683	3208
70°	5091	3156	2709
75°	4562	2543	2169
80°	3887	1839	1527
85°	3020	1025	822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	2.4
10°-20°	254.6	6.8
20°-30°	374.7	10.1
30°-40°	435.6	11.7
40°-50°	435.5	11.7
50°-60°	380.9	10.2
60°-70°	282.8	7.6
70°-80°	160.5	4.3
80°-90°	46.9	1.3
90°-100°	29.7	0.8
100°-110°	88.9	2.4
110°-120°	151.1	4.1
120°-130°	199.3	5.3
130°-140°	223.8	6.0
140°-150°	220.0	5.9
150°-160°	185.0	5.0
160°-170°	123.1	3.3
170°-180°	43.1	1.2
0°-30°	719.7	19.3
0°-40°	1155.3	31.0
0°-60°	1971.8	52.9
0°-90°	2462.0	66.1
90°-120°	269.7	7.2
90°-150°	912.8	24.5
90°-180°	1264.0	33.9
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	958	955	946	955	953	91
15°	912	909	897	902	900	257
25°	826	820	810	810	808	380
35°	711	705	694	689	685	444
45°	580	575	562	554	552	447
55°	439	436	426	416	412	393
65°	297	294	286	278	274	294
75°	158	154	151	148	147	168
85°	42	42	40	40	39	45
90°	1	5	8	10	11	4
95°	21	24	27	28	28	23
105°	82	82	84	85	86	87
115°	154	154	153	153	152	152
125°	224	224	223	223	222	199
135°	289	291	291	290	289	223
145°	351	352	352	352	351	219
155°	402	402	401	403	401	185
165°	437	436	436	438	436	123
175°	455	453	453	455	453	43
180°	456	456	456	456	456	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.8	958.8	958.8	958.8	958.8
2.5°	961.9	959.6	951.1	958.8	958.1
5°	958.1	955.0	946.5	955.0	953.4
7.5°	951.1	948.1	938.8	945.8	945.0
10°	941.2	938.1	928.1	934.2	932.7
12.5°	928.1	925.0	914.3	921.2	918.9
15°	912.0	908.9	897.4	902.0	899.7
17.5°	893.5	889.7	878.9	882.0	880.5
20°	872.8	868.9	857.4	859.7	858.2
22.5°	850.5	845.1	833.6	838.2	835.1
25°	825.9	820.5	809.8	810.5	807.5
27.5°	798.2	792.9	782.9	781.3	777.5
30°	770.6	764.4	754.5	751.4	747.5
32.5°	741.4	736.0	725.3	721.4	717.6
35°	710.7	705.3	694.5	689.2	685.3
37.5°	678.4	673.8	662.3	656.9	651.5
40°	646.9	640.8	629.2	621.5	617.7
42.5°	613.1	610.0	597.0	587.7	585.4
45°	580.1	574.7	562.4	553.9	551.6
47.5°	545.5	541.6	530.1	520.9	514.8
50°	510.1	507.1	496.3	485.6	480.9
52.5°	475.6	471.7	460.2	451.0	444.8
55°	438.7	436.4	425.6	416.4	411.8
57.5°	404.1	401.8	391.1	381.8	377.2
60°	368.0	364.2	354.2	347.3	343.4
62.5°	332.7	329.6	318.8	312.7	308.9
65°	297.3	293.5	285.8	278.1	274.3
67.5°	261.2	258.1	250.5	242.8	242.0
70°	228.2	222.8	216.7	210.5	208.2
72.5°	192.8	187.5	182.9	178.2	175.9
75°	158.3	154.4	150.6	147.5	146.7
77.5°	124.5	122.9	119.1	118.3	116.0
80°	94.5	92.2	90.7	89.1	88.4
82.5°	65.3	64.5	64.5	63.8	63.0
85°	41.5	41.5	40.0	40.0	39.2
87.5°	20.0	19.2	18.4	18.4	18.4
90°	1.1	4.9	7.8	9.9	10.6
92.5°	9.2	13.7	15.5	16.6	16.9
95°	21.1	24.3	26.8	27.8	27.8
97.5°	33.8	36.6	39.5	40.9	40.9
100°	49.3	50.7	53.9	54.6	54.6
102.5°	65.5	65.9	68.7	69.8	70.1
105°	82.1	82.4	83.9	84.9	86.0
107.5°	99.4	99.7	100.1	101.5	101.1
110°	117.0	117.7	117.3	116.6	117.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.3	135.3	134.6	134.6	134.6
115°	153.6	153.6	152.9	152.6	152.2
117.5°	170.9	170.9	170.5	169.5	168.4
120°	188.1	189.6	188.5	186.7	187.4
122.5°	206.1	206.5	206.1	205.1	203.3
125°	223.7	223.7	223.4	222.7	222.0
127.5°	239.6	240.6	239.9	239.2	238.9
130°	256.5	257.6	257.6	256.9	255.4
132.5°	273.8	274.5	274.1	273.4	273.1
135°	288.6	290.7	290.7	290.0	288.9
137.5°	305.1	306.2	306.9	305.8	306.2
140°	321.7	322.4	322.4	322.0	321.7
142.5°	336.8	337.5	337.2	337.2	337.2
145°	350.6	352.0	352.3	352.0	350.9
147.5°	364.7	366.4	366.1	365.7	365.4
150°	377.3	378.8	378.8	378.8	378.4
152.5°	389.3	390.0	390.4	391.4	390.4
155°	401.7	401.7	401.3	402.7	401.3
157.5°	412.2	411.5	411.5	412.6	411.5
160°	421.4	421.0	420.7	421.7	420.0
162.5°	429.8	428.8	428.4	430.5	428.8
165°	437.2	436.2	435.5	437.6	436.2
167.5°	443.2	441.8	441.8	443.9	441.8
170°	448.2	446.4	446.8	448.9	446.4
172.5°	451.7	450.3	450.3	452.7	450.3
175°	454.9	453.1	452.7	455.2	452.7
177.5°	456.3	454.5	454.5	457.0	454.2
180°	455.6	455.6	455.6	455.6	455.6

(END OF REPORT)