

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: P1025653

Luminaire Tested: S124DIP-B575D590UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025653
REPORT IS A COMBINATION OF REPORTS P996253 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D590UB50-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

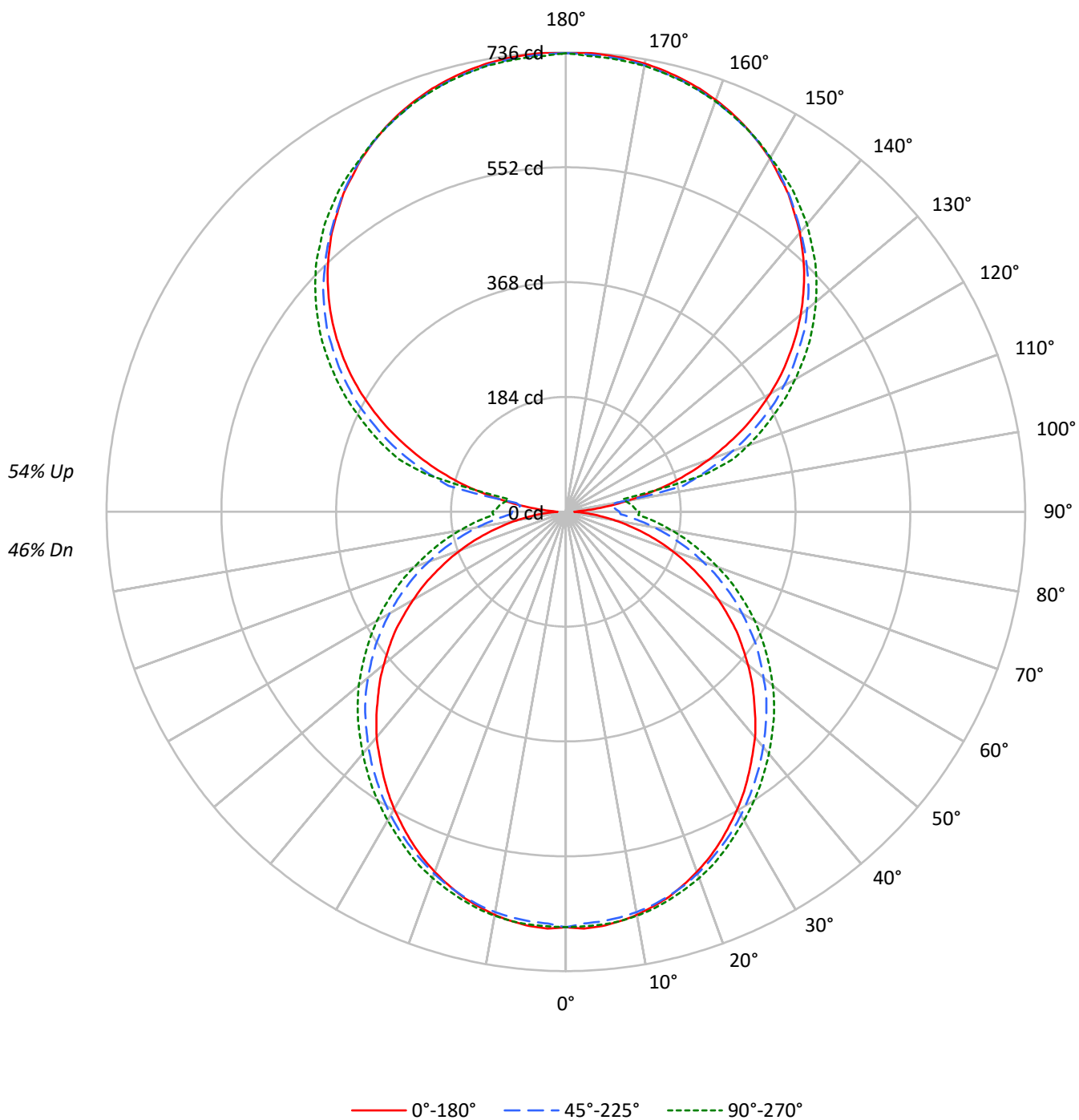
Lumens per Lamp: N/A
Luminaire Lumens: 4544.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43
2	87	79	73	67	79	73	67	62	61	56	53	49	46	44	39	37	35
3	79	69	62	55	72	64	57	52	53	48	44	43	40	37	34	32	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	48	40	34	55	45	37	32	38	32	28	31	27	23	25	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12

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	1.4
10°-20°	180.7	4.0
20°-30°	273.2	6.0
30°-40°	330.5	7.3
40°-50°	349.4	7.7
50°-60°	328.8	7.2
60°-70°	272.9	6.0
70°-80°	191.5	4.2
80°-90°	109.5	2.4
90°-100°	88.6	2.0
100°-110°	208.2	4.6
110°-120°	338.6	7.5
120°-130°	407.3	9.0
130°-140°	424.3	9.3
140°-150°	391.0	8.6
150°-160°	314.1	6.9
160°-170°	202.6	4.5
170°-180°	69.8	1.5
0°-30°	516.9	11.4
0°-40°	847.4	18.6
0°-60°	1525.6	33.6
0°-90°	2099.4	46.2
90°-120°	635.5	14.0
90°-150°	1858.1	40.9
90°-180°	2445.0	53.8
0°-180°	4544.0	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°	14	49	86	111	118	10
95°	40	46	77	100	108	45
105°	172	190	221	244	230	181
115°	313	322	345	362	368	309
125°	437	438	456	472	477	391
135°	540	540	547	560	566	416
145°	622	623	623	628	632	389
155°	681	681	680	682	680	314
165°	718	716	716	720	715	203
175°	735	731	732	737	730	70
180°	735	735	735	735	735	

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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°	13.5	49.4	85.9	110.8	117.9
92.5°	19.4	44.4	80.8	105.0	110.9
95°	39.9	45.8	76.9	100.4	107.6
97.5°	66.6	100.4	73.2	95.3	102.6
100°	98.3	127.6	80.8	91.6	97.4
102.5°	134.6	157.6	192.5	88.2	94.2
105°	172.1	190.3	220.7	244.2	230.4
107.5°	207.8	222.2	252.1	273.5	280.9
110°	243.4	255.4	284.8	303.0	310.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	277.8	290.1	315.8	331.5	339.7
115°	313.3	321.7	344.9	362.4	367.6
117.5°	345.8	352.4	376.4	391.6	397.5
120°	377.9	382.4	403.5	419.5	424.3
122.5°	408.7	409.8	431.0	446.6	450.7
125°	437.1	438.5	456.1	471.9	476.9
127.5°	465.2	464.9	482.6	495.5	500.2
130°	491.3	491.1	504.7	518.6	523.1
132.5°	516.0	516.4	527.5	540.8	544.7
135°	540.0	539.5	546.9	559.9	565.5
137.5°	562.0	561.2	567.0	579.3	582.4
140°	583.5	583.8	585.6	597.0	601.2
142.5°	601.9	604.1	603.9	613.2	616.2
145°	621.7	622.6	622.6	627.7	631.8
147.5°	637.1	639.7	639.1	640.4	643.9
150°	654.1	655.6	655.0	655.0	655.6
152.5°	667.7	669.3	668.2	669.3	668.8
155°	680.9	681.4	679.8	682.0	680.3
157.5°	692.4	692.4	690.2	693.0	690.2
160°	702.3	700.6	700.1	703.4	700.1
162.5°	711.1	708.9	708.3	711.6	707.8
165°	718.2	715.5	715.5	719.9	714.9
167.5°	724.3	721.5	721.0	725.9	720.4
170°	729.2	725.9	726.5	730.9	725.4
172.5°	732.5	729.2	729.8	734.2	728.1
175°	734.7	731.4	732.0	736.9	730.3
177.5°	736.4	732.5	733.6	738.0	731.4
180°	734.7	734.7	734.7	734.7	734.7

(END OF REPORT)