

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: P1025878

Luminaire Tested: S124DIP-B795D590UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025878
REPORT IS A COMBINATION OF REPORTS P996553 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D590UB50-4F0-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

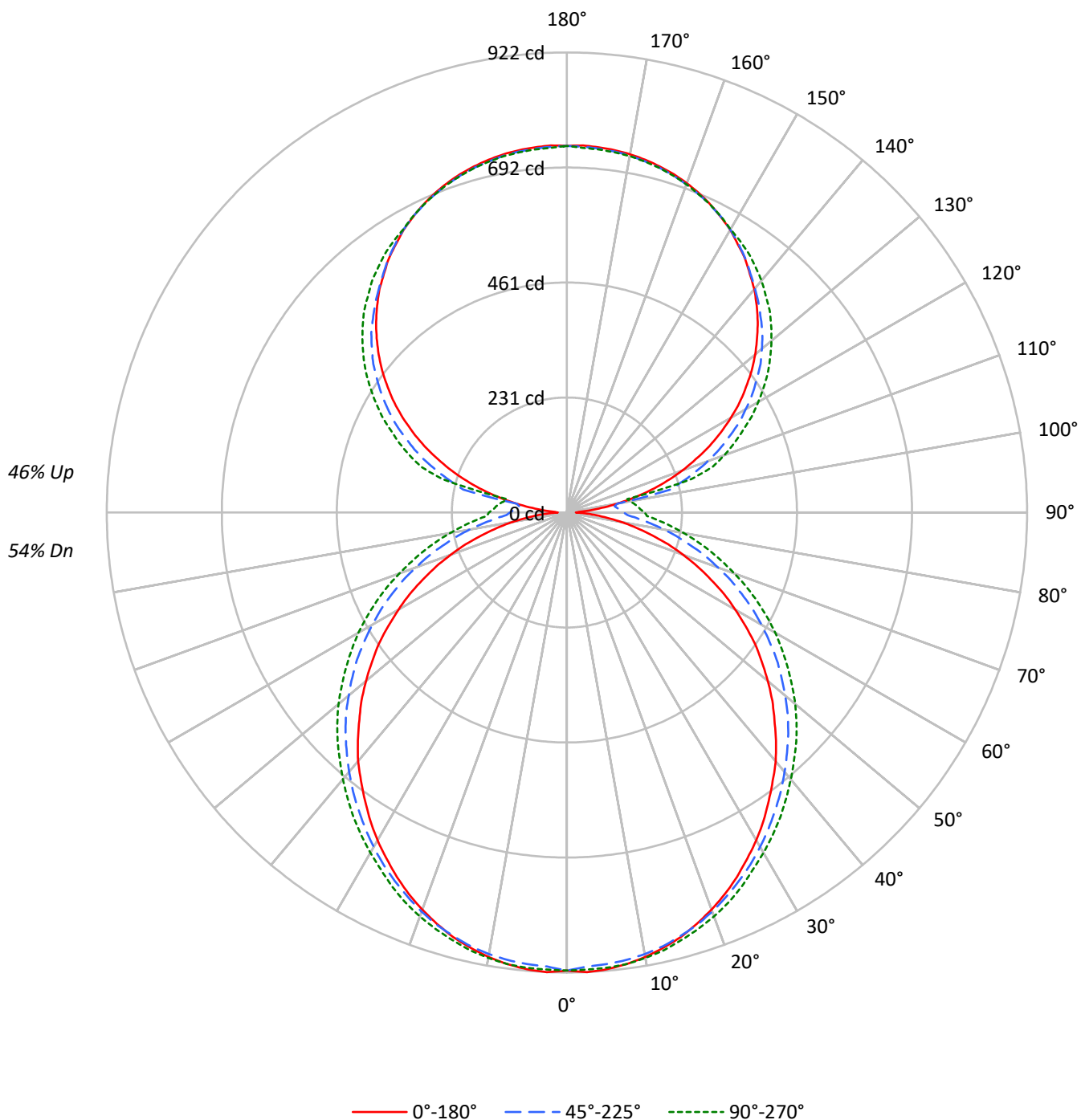
Lumens per Lamp: N/A
Luminaire Lumens: 5405.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	98	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48
2	88	80	74	68	81	74	69	64	63	59	55	53	50	47	44	42	40
3	80	70	62	56	74	65	58	53	56	50	46	47	43	39	39	36	33
4	73	62	54	47	67	57	50	44	49	43	39	41	37	33	34	31	28
5	67	55	46	40	62	51	44	38	44	38	33	37	32	29	31	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	29	25	28	24	21
7	57	44	36	30	53	41	34	29	36	30	25	30	26	22	25	22	19
8	53	40	32	27	49	38	30	25	32	27	22	28	23	20	23	20	17
9	49	37	29	24	46	34	27	22	30	24	20	25	21	18	21	18	15
10	46	34	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7507	7291	7304
10°	7458	7147	7127
15°	7388	6986	6927
20°	7285	6812	6733
25°	7168	6619	6524
30°	7042	6428	6311
35°	6899	6234	6121
40°	6785	6046	5924
45°	6616	5870	5750
50°	6471	5671	5567
55°	6323	5478	5355
60°	6090	5239	5157
65°	5836	4980	4918
70°	5528	4686	4641
75°	5095	4357	4378
80°	4611	4024	4103
85°	3966	3687	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.6
10°-20°	249.2	4.6
20°-30°	376.8	7.0
30°-40°	455.9	8.4
40°-50°	482.0	8.9
50°-60°	453.6	8.4
60°-70°	376.4	7.0
70°-80°	264.1	4.9
80°-90°	150.4	2.8
90°-100°	113.0	2.1
100°-110°	226.3	4.2
110°-120°	350.8	6.5
120°-130°	414.2	7.7
130°-140°	427.3	7.9
140°-150°	391.6	7.2
150°-160°	314.1	5.8
160°-170°	202.6	3.7
170°-180°	69.8	1.3
0°-30°	713.1	13.2
0°-40°	1169.0	21.6
0°-60°	2104.5	38.9
0°-90°	2895.5	53.6
90°-120°	690.0	12.8
90°-150°	1923.0	35.6
90°-180°	2509.0	46.4
0°-180°	5405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	919	916	909	917	916	87
15°	881	882	879	888	887	248
25°	806	812	815	827	828	371
35°	705	718	728	742	745	442
45°	588	608	627	645	650	454
55°	461	482	513	534	540	410
65°	319	352	386	412	420	316
75°	177	215	258	287	296	188
85°	54	98	144	175	185	57
90°	18	65	114	147	156	13
95°	44	59	102	133	142	48
105°	175	198	239	270	258	184
115°	315	326	358	382	389	311
125°	438	439	464	485	492	392
135°	541	540	550	567	574	417
145°	622	623	623	629	635	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°	918.0	918.0	918.0	918.0	918.0
2.5°	922.2	919.1	910.9	918.0	917.0
5°	919.1	916.0	908.8	917.0	916.0
7.5°	912.9	910.9	904.7	913.9	912.9
10°	904.7	903.7	898.5	907.8	906.7
12.5°	893.4	893.4	890.3	898.5	898.5
15°	881.0	882.1	879.0	888.2	887.2
17.5°	864.6	867.7	866.6	875.9	874.9
20°	847.1	850.2	851.2	861.5	861.5
22.5°	827.6	831.7	833.7	844.0	846.1
25°	806.0	812.2	815.2	826.6	827.6
27.5°	782.3	791.6	795.7	806.0	807.0
30°	758.7	766.9	774.1	785.4	787.5
32.5°	733.0	743.3	751.5	764.9	766.9
35°	705.2	717.6	727.9	742.3	745.3
37.5°	677.5	691.9	704.2	718.6	721.7
40°	650.8	664.1	678.5	693.9	698.0
42.5°	619.9	635.3	652.8	670.3	673.4
45°	588.0	607.6	627.1	644.6	649.7
47.5°	558.2	577.8	600.4	617.9	624.0
50°	525.3	547.9	570.6	591.1	597.3
52.5°	492.4	515.1	541.8	562.3	568.5
55°	460.6	482.2	513.0	533.6	539.7
57.5°	424.6	451.3	481.1	505.8	510.9
60°	389.6	416.4	450.3	473.9	482.2
62.5°	355.7	385.5	419.4	443.1	451.3
65°	318.7	351.6	386.5	412.2	420.5
67.5°	283.7	318.7	355.7	381.4	389.6
70°	247.8	282.7	321.8	349.5	356.7
72.5°	212.8	248.8	290.9	317.7	325.9
75°	176.8	214.9	258.0	286.8	296.1
77.5°	142.9	183.0	228.2	257.0	267.3
80°	112.1	153.2	198.4	229.3	237.5
82.5°	81.2	124.4	169.6	201.5	210.7
85°	54.5	97.7	143.9	174.8	185.0
87.5°	33.9	76.1	121.3	151.1	160.4
90°	18.0	65.3	113.9	147.0	156.3
92.5°	23.6	58.5	107.1	139.2	147.4
95°	43.6	58.8	101.5	132.6	142.3
97.5°	70.0	111.9	96.4	125.8	135.7
100°	101.4	138.0	102.3	120.7	128.5
102.5°	137.7	166.9	212.6	115.6	123.8
105°	174.7	198.5	239.4	270.0	258.4
107.5°	210.4	229.5	269.3	297.8	307.2
110°	245.6	261.6	300.9	325.6	335.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.8	295.4	330.5	352.5	362.9
115°	315.0	325.9	358.2	381.9	389.1
117.5°	347.5	355.8	388.3	409.4	417.6
120°	379.3	384.6	413.9	435.6	442.7
122.5°	410.1	411.2	440.1	461.3	467.4
125°	438.2	439.4	464.0	485.2	491.9
127.5°	466.3	465.8	489.1	507.0	513.7
130°	492.2	491.7	509.8	528.8	535.0
132.5°	516.9	517.0	531.5	549.6	555.1
135°	540.6	540.1	549.5	567.0	574.3
137.5°	562.6	561.5	568.4	585.0	589.5
140°	584.1	584.1	586.2	601.2	606.9
142.5°	602.2	604.4	603.9	616.3	620.4
145°	622.0	622.6	622.6	629.4	634.6
147.5°	637.4	639.7	639.1	640.7	645.3
150°	654.4	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)