

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: P1025923

Luminaire Tested: S124DIP-B795D810UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025923
REPORT IS A COMBINATION OF REPORTS P996613 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D810UB50-4F0-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

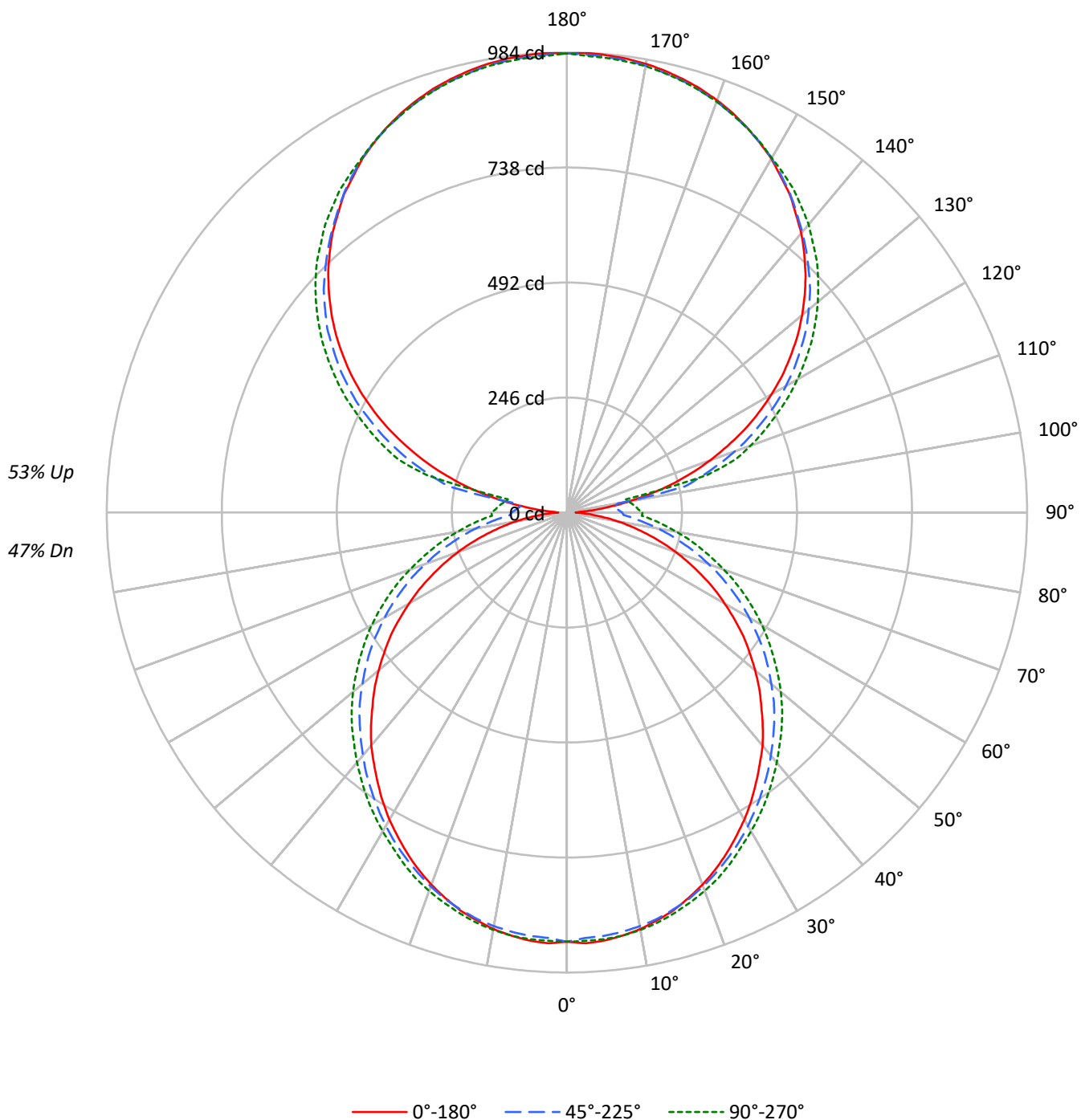
Lumens per Lamp: N/A
Luminaire Lumens: 6170.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
Input Voltage (V):
Input Current (A_{in}): 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	82	82	82	67	67	67	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	54	46	44	43
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	40	37	36
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	35	32	30
4	72	61	53	47	66	56	49	43	47	42	37	39	35	31	31	28	25
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15
9	49	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12

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	1.4
10°-20°	249.2	4.0
20°-30°	376.8	6.1
30°-40°	455.9	7.4
40°-50°	482.0	7.8
50°-60°	453.6	7.4
60°-70°	376.4	6.1
70°-80°	264.1	4.3
80°-90°	150.9	2.4
90°-100°	121.2	2.0
100°-110°	280.3	4.5
110°-120°	453.9	7.4
120°-130°	545.1	8.8
130°-140°	567.3	9.2
140°-150°	522.6	8.5
150°-160°	419.7	6.8
160°-170°	270.7	4.4
170°-180°	93.3	1.5
0°-30°	713.1	11.6
0°-40°	1169.0	18.9
0°-60°	2104.5	34.1
0°-90°	2896.0	46.9
90°-120°	855.4	13.9
90°-150°	2490.3	40.4
90°-180°	3274.0	53.1
0°-180°	6170.0	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°	19	68	118	152	162	13
95°	54	63	106	138	148	60
105°	230	255	297	329	311	242
115°	419	430	462	486	494	413
125°	584	586	610	632	639	522
135°	722	721	731	749	757	556
145°	831	832	832	839	844	519
155°	910	911	908	911	909	420
165°	960	956	956	962	955	271
175°	982	977	978	985	976	93
180°	982	982	982	982	982	

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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°	18.6	67.9	118.0	152.2	161.8
92.5°	26.4	60.9	111.0	144.2	152.4
95°	53.8	62.7	105.6	137.8	147.7
97.5°	89.4	135.4	100.5	130.8	140.9
100°	131.7	171.6	110.4	125.7	133.7
102.5°	180.2	211.6	259.5	121.0	129.2
105°	230.3	255.2	297.0	329.3	311.1
107.5°	278.1	297.7	338.8	368.2	378.3
110°	325.4	342.0	382.4	407.5	418.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.4	388.1	423.6	445.5	456.6
115°	418.9	430.3	462.5	486.5	493.7
117.5°	462.2	471.2	504.4	525.2	533.4
120°	505.2	511.2	540.3	562.3	569.1
122.5°	546.3	547.8	577.0	598.4	604.1
125°	584.2	586.1	610.4	632.1	639.0
127.5°	621.7	621.4	645.6	663.3	669.8
130°	656.6	656.4	675.0	694.2	700.4
132.5°	689.7	690.2	705.4	723.6	729.0
135°	721.7	721.0	731.1	749.0	756.7
137.5°	751.1	750.0	757.8	774.7	779.1
140°	779.7	780.1	782.7	798.2	804.1
142.5°	804.3	807.3	807.0	819.8	823.9
145°	830.8	832.0	832.0	838.9	844.5
147.5°	851.3	854.7	854.0	855.7	860.6
150°	874.1	876.0	875.3	875.3	876.0
152.5°	892.2	894.4	892.9	894.4	893.7
155°	909.8	910.6	908.3	911.3	909.1
157.5°	925.2	925.2	922.3	926.0	922.3
160°	938.5	936.3	935.5	939.9	935.5
162.5°	950.2	947.3	946.5	950.9	945.8
165°	959.8	956.1	956.1	962.0	955.3
167.5°	967.8	964.2	963.4	970.0	962.7
170°	974.4	970.0	970.8	976.6	969.3
172.5°	978.8	974.4	975.2	981.0	973.0
175°	981.8	977.4	978.1	984.7	975.9
177.5°	984.0	978.8	980.3	986.2	977.4
180°	981.8	981.8	981.8	981.8	981.8

(END OF REPORT)