

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: P1025789

Luminaire Tested: S124DIP-B795D1205UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025789
REPORT IS A COMBINATION OF REPORTS P996434 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB50-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

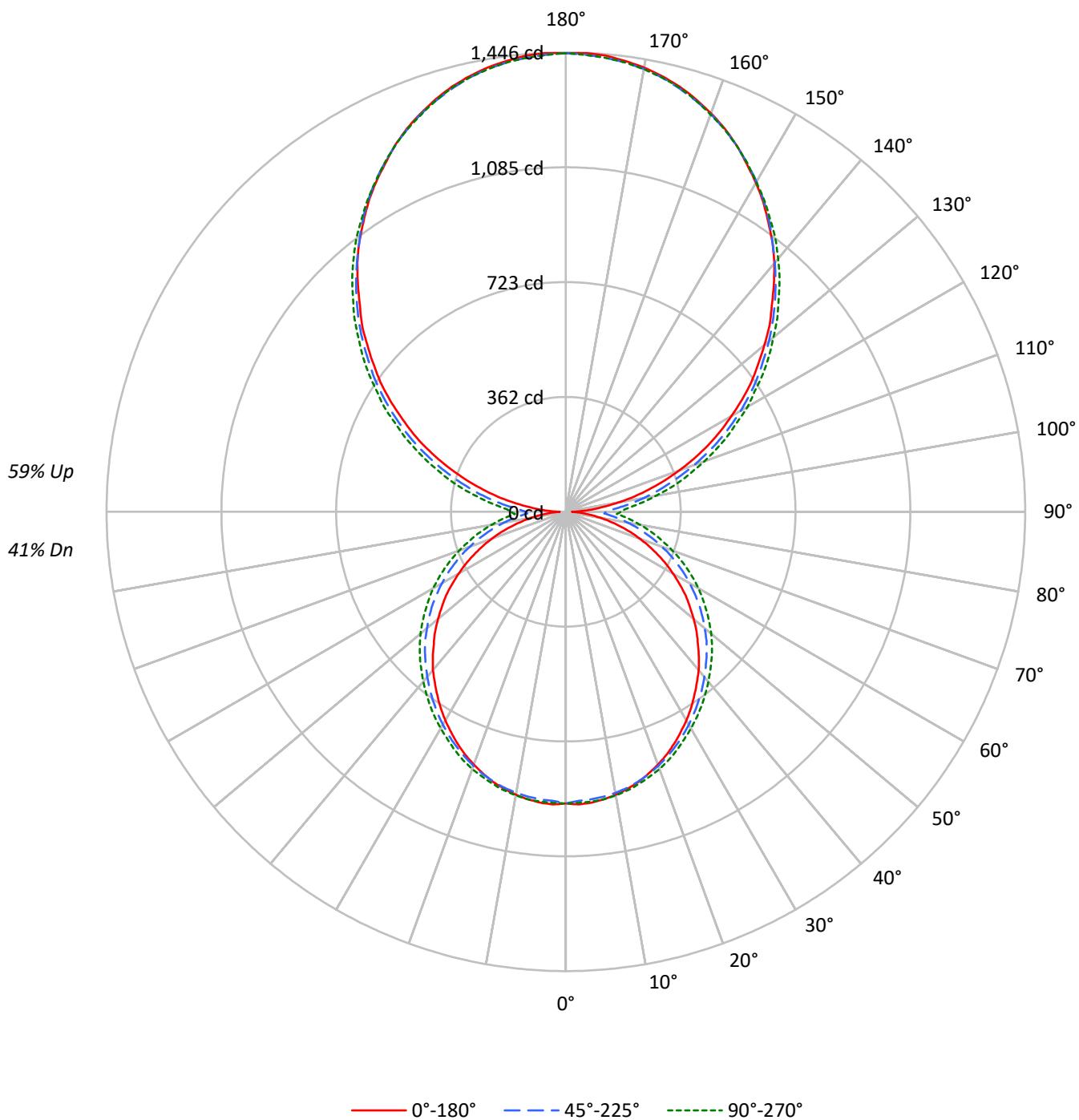
Lumens per Lamp: N/A
Luminaire Lumens: 7138.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	39	38
2	86	78	72	67	78	71	66	61	58	54	51	46	44	41	35	33	32
3	78	68	61	55	71	62	56	51	51	46	42	41	37	34	31	29	27
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	27	25	23
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	19	17
7	55	43	35	29	50	40	32	27	33	27	23	26	22	19	20	17	15
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11

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	1.2
10°-20°	249.2	3.5
20°-30°	376.8	5.3
30°-40°	455.9	6.4
40°-50°	482.0	6.8
50°-60°	453.6	6.4
60°-70°	376.4	5.3
70°-80°	264.1	3.7
80°-90°	152.0	2.1
90°-100°	182.7	2.6
100°-110°	347.5	4.9
110°-120°	522.8	7.3
120°-130°	656.2	9.2
130°-140°	719.9	10.1
140°-150°	699.1	9.8
150°-160°	586.2	8.2
160°-170°	390.0	5.5
170°-180°	136.6	1.9
0°-30°	713.1	10.0
0°-40°	1169.0	16.4
0°-60°	2104.5	29.5
0°-90°	2897.0	40.6
90°-120°	1053.0	14.8
90°-150°	3128.1	43.8
90°-180°	4241.0	59.4
0°-180°	7138.0	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°	20	73	126	163	173	16
95°	80	124	174	205	215	83
105°	269	291	334	363	374	286
115°	493	502	533	554	560	487
125°	713	712	736	754	758	636
135°	916	923	930	944	947	709
145°	1112	1115	1116	1121	1122	696
155°	1273	1273	1272	1276	1272	586
165°	1385	1382	1380	1386	1382	391
175°	1441	1436	1434	1442	1434	137
180°	1443	1443	1443	1443	1443	

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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°	19.7	73.2	126.4	162.9	173.3
92.5°	44.4	94.9	144.7	176.9	186.2
95°	80.4	124.3	174.2	205.4	214.6
97.5°	119.5	158.2	209.3	240.5	249.8
100°	167.6	198.8	248.9	278.9	286.1
102.5°	218.9	242.7	290.7	320.7	330.0
105°	269.4	291.0	333.6	362.6	374.2
107.5°	324.1	342.6	379.7	409.9	416.0
110°	378.8	395.5	430.3	451.7	463.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.9	448.2	479.9	502.5	510.7
115°	492.9	502.1	532.8	554.3	560.4
117.5°	547.6	553.7	583.5	601.8	606.6
120°	601.2	608.8	635.2	650.3	660.7
122.5°	658.1	659.3	685.9	703.2	704.8
125°	713.0	712.0	736.5	753.8	757.8
127.5°	763.2	765.5	783.8	800.1	806.2
130°	815.8	818.1	834.5	850.8	852.5
132.5°	870.5	871.7	882.9	898.2	903.1
135°	916.4	923.1	930.3	944.4	947.3
137.5°	968.8	971.1	977.4	989.6	995.8
140°	1021.3	1022.4	1023.5	1035.7	1039.8
142.5°	1068.2	1070.4	1068.3	1079.6	1083.7
145°	1111.7	1115.2	1116.3	1121.4	1122.2
147.5°	1156.4	1161.0	1159.9	1159.7	1162.7
150°	1196.6	1200.0	1200.0	1200.0	1198.9
152.5°	1233.5	1235.8	1236.9	1240.2	1236.9
155°	1272.6	1272.6	1271.5	1276.0	1271.5
157.5°	1306.1	1303.9	1303.9	1307.2	1303.9
160°	1335.1	1334.0	1332.9	1336.2	1330.7
162.5°	1361.9	1358.6	1357.4	1364.1	1358.6
165°	1385.4	1382.0	1379.8	1386.5	1382.0
167.5°	1404.3	1399.9	1399.9	1406.6	1399.9
170°	1420.0	1414.4	1415.5	1422.2	1414.4
172.5°	1431.1	1426.7	1426.7	1434.5	1426.7
175°	1441.2	1435.6	1434.5	1442.3	1434.5
177.5°	1445.6	1440.1	1440.1	1447.9	1438.9
180°	1443.4	1443.4	1443.4	1443.4	1443.4

(END OF REPORT)