

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: P1025788

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025788
REPORT IS A COMBINATION OF REPORTS P996433 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-D
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

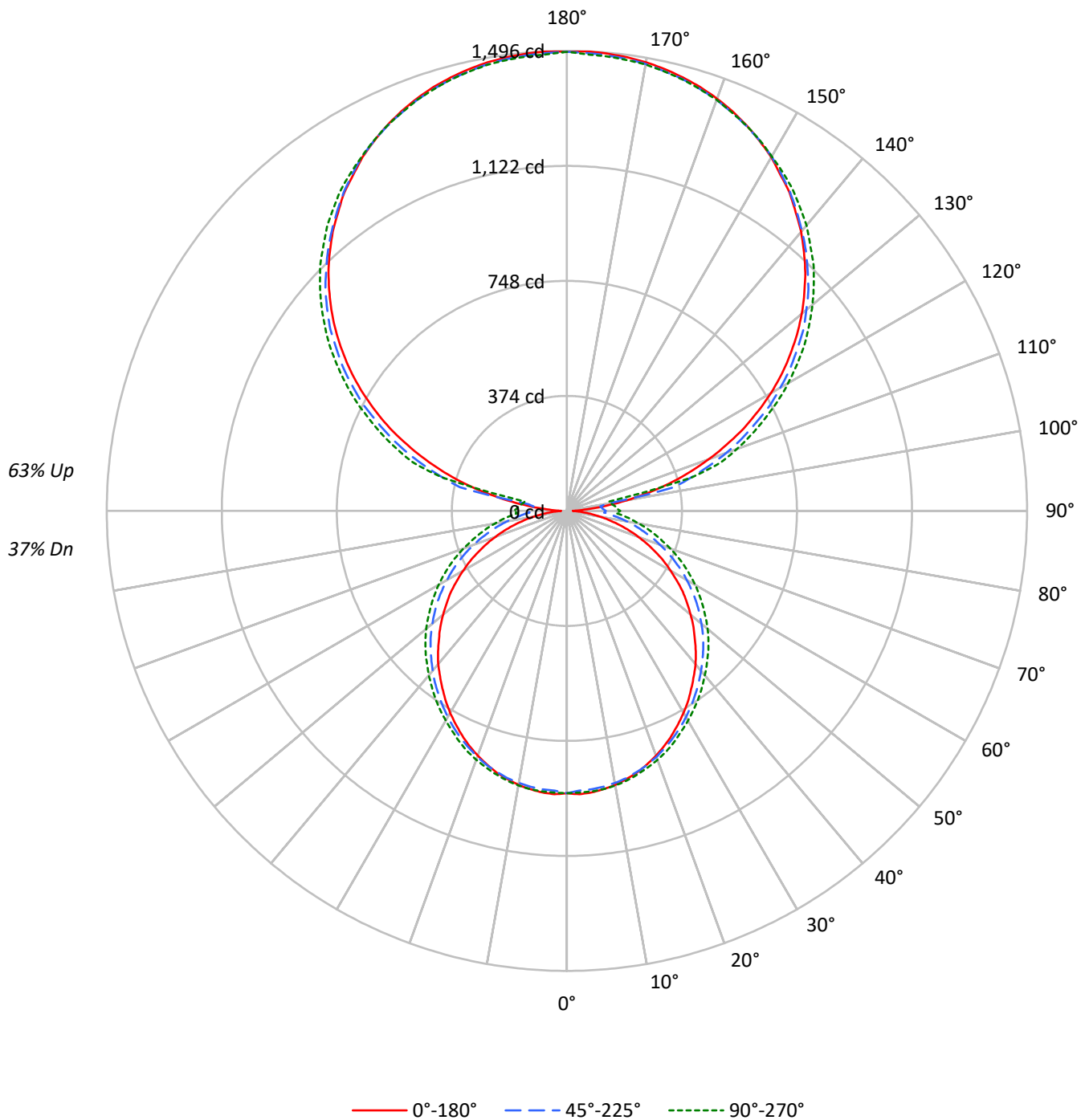
Lumens per Lamp: N/A
Luminaire Lumens: 7752.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	94	90	86	82	85	81	78	75	66	63	61	51	50	48	38	37	36
2	85	78	71	66	77	71	65	61	57	53	50	45	42	40	33	31	30
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

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	1.1
10°-20°	249.2	3.2
20°-30°	376.8	4.9
30°-40°	455.9	5.9
40°-50°	482.0	6.2
50°-60°	453.6	5.9
60°-70°	376.4	4.9
70°-80°	264.1	3.4
80°-90°	152.0	2.0
90°-100°	138.2	1.8
100°-110°	392.0	5.1
110°-120°	667.2	8.6
120°-130°	815.8	10.5
130°-140°	857.0	11.1
140°-150°	793.4	10.2
150°-160°	638.1	8.2
160°-170°	411.5	5.3
170°-180°	141.8	1.8
0°-30°	713.1	9.2
0°-40°	1169.0	15.1
0°-60°	2104.5	27.1
0°-90°	2897.0	37.4
90°-120°	1197.3	15.4
90°-150°	3663.5	47.3
90°-180°	4855.0	62.6
0°-180°	7752.0	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	14
95°	75	71	114	148	159	86
105°	345	372	416	452	420	362
115°	634	646	678	703	710	624
125°	886	890	913	936	943	792
135°	1096	1095	1107	1125	1134	845
145°	1263	1265	1265	1272	1279	789
155°	1383	1384	1381	1386	1382	638
165°	1459	1454	1454	1462	1452	412
175°	1493	1486	1487	1497	1484	142
180°	1493	1493	1493	1493	1493	

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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°	32.1	65.9	119.0	154.5	162.7
95°	74.8	70.7	114.0	148.5	158.8
97.5°	129.5	183.9	108.9	141.1	151.6
100°	194.4	241.2	127.2	136.0	144.4
102.5°	268.1	304.1	356.6	132.1	140.3
105°	345.4	372.5	416.2	452.0	420.0
107.5°	417.9	438.7	482.5	513.8	525.4
110°	490.5	508.3	551.0	576.8	588.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	561.0	580.0	616.2	637.7	650.3
115°	633.6	646.2	678.0	702.8	710.0
117.5°	699.5	710.1	744.3	764.8	773.0
120°	765.4	773.0	801.7	824.5	830.5
122.5°	827.9	830.2	860.2	881.9	886.9
125°	886.1	889.6	913.0	935.9	943.2
127.5°	943.0	943.2	969.2	986.6	992.7
130°	996.7	996.9	1016.6	1036.2	1042.4
132.5°	1047.0	1048.2	1065.0	1083.6	1088.6
135°	1096.2	1095.1	1106.8	1125.4	1133.8
137.5°	1140.9	1139.8	1149.5	1167.2	1171.2
140°	1184.4	1185.6	1188.9	1205.5	1211.9
142.5°	1222.4	1226.9	1227.0	1240.5	1244.6
145°	1262.6	1264.9	1264.9	1272.3	1278.6
147.5°	1293.8	1299.5	1298.4	1300.5	1305.8
150°	1328.5	1331.9	1330.8	1330.8	1331.9
152.5°	1356.5	1359.8	1357.6	1359.8	1358.7
155°	1383.3	1384.4	1381.0	1385.5	1382.2
157.5°	1406.7	1406.7	1402.3	1407.8	1402.3
160°	1426.8	1423.5	1422.4	1429.1	1422.4
162.5°	1444.7	1440.2	1439.1	1445.8	1438.0
165°	1459.2	1453.6	1453.6	1462.5	1452.5
167.5°	1471.5	1465.9	1464.8	1474.8	1463.7
170°	1481.5	1474.8	1475.9	1484.9	1473.7
172.5°	1488.2	1481.5	1482.6	1491.6	1479.3
175°	1492.7	1486.0	1487.1	1497.2	1483.8
177.5°	1496.0	1488.2	1490.5	1499.4	1486.0
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)