

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: P1010541

Luminaire Tested: S123DIP-B1165D805UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010541
REPORT IS A COMBINATION OF REPORTS P989580 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D805UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

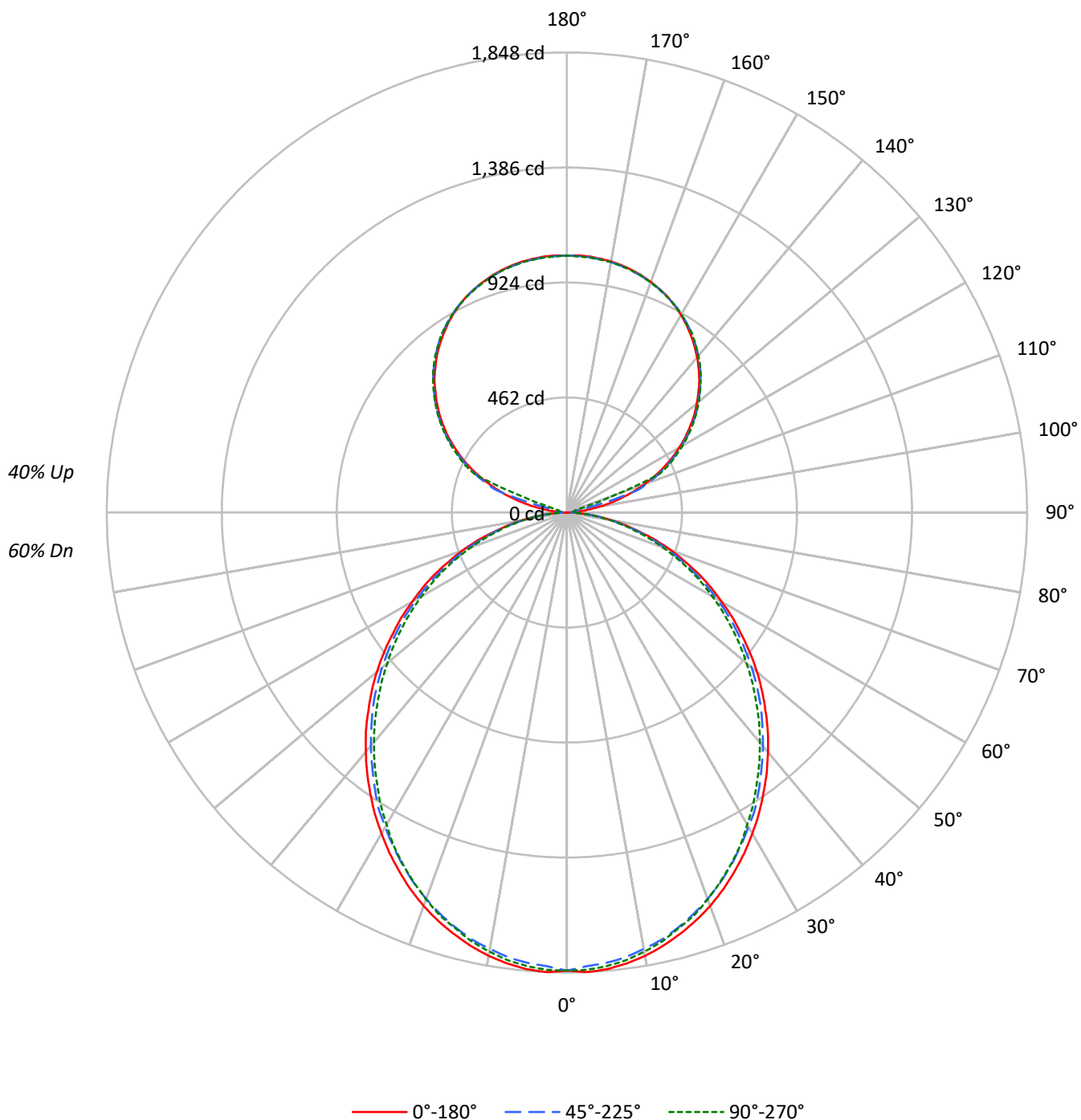
Lumens per Lamp: N/A
Luminaire Lumens: 7938.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 82.4
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	50	30	10
RCR																				
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	66	66	60
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	55	55	55	51
2	91	83	77	72	85	78	73	68	68	64	61	59	56	53	51	49	47	47	47	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40	40	40	36
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34	34	34	31
5	70	58	50	43	65	54	47	41	48	42	37	42	37	34	36	33	30	30	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	26	26	23
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19807	19807	19807
5°	19856	19123	19094
10°	19680	18476	18287
15°	19406	17803	17406
20°	19092	17055	16532
25°	18686	16267	15600
30°	18242	15451	14618
35°	17776	14618	13643
40°	17290	13742	12683
45°	16754	12889	11681
50°	16209	11939	10675
55°	15510	10948	9656
60°	14789	9857	8571
65°	14113	8675	7440
70°	13140	7364	6120
75°	11735	5832	4751
80°	10136	4098	3361
85°	7905	2203	1682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.2
10°-20°	489.8	6.2
20°-30°	723.4	9.1
30°-40°	844.9	10.6
40°-50°	849.4	10.7
50°-60°	746.1	9.4
60°-70°	555.7	7.0
70°-80°	316.2	4.0
80°-90°	92.0	1.2
90°-100°	36.4	0.5
100°-110°	176.0	2.2
110°-120°	431.3	5.4
120°-130°	547.5	6.9
130°-140°	584.9	7.4
140°-150°	546.9	6.9
150°-160°	441.1	5.6
160°-170°	284.7	3.6
170°-180°	98.1	1.2
0°-30°	1386.7	17.5
0°-40°	2231.6	28.1
0°-60°	3827.2	48.2
0°-90°	4791.1	60.4
90°-120°	643.7	8.1
90°-150°	2323.0	29.3
90°-180°	3147.0	39.6
0°-180°	7938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1842	1834	1816	1832	1829	175
15°	1753	1747	1726	1739	1729	494
25°	1592	1582	1562	1563	1558	733
35°	1376	1367	1346	1337	1329	861
45°	1128	1122	1101	1082	1074	871
55°	856	854	834	816	808	767
65°	584	576	560	547	543	576
75°	308	302	298	290	285	330
85°	82	79	79	76	76	88
90°	1	8	18	22	23	8
95°	47	15	24	29	29	56
105°	228	237	168	32	34	242
115°	429	433	440	448	451	423
125°	604	610	614	615	617	540
135°	752	757	760	762	760	579
145°	868	874	875	877	877	544
155°	956	955	956	959	955	441
165°	1008	1006	1005	1012	1006	285
175°	1032	1028	1029	1035	1028	98
180°	1032	1032	1032	1032	1032	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1848.0	1841.7	1824.3	1840.1	1838.5
5°	1841.7	1833.8	1816.4	1832.2	1829.0
7.5°	1827.5	1819.5	1802.1	1816.4	1814.8
10°	1808.5	1800.6	1780.0	1794.2	1791.1
12.5°	1783.2	1776.8	1757.8	1767.3	1765.7
15°	1753.1	1746.8	1726.2	1738.9	1729.4
17.5°	1719.9	1712.0	1691.4	1700.9	1697.7
20°	1681.9	1672.4	1651.8	1658.2	1653.4
22.5°	1639.2	1629.7	1609.1	1613.9	1607.5
25°	1591.7	1582.2	1561.6	1563.2	1558.5
27.5°	1542.7	1533.2	1511.0	1512.6	1507.8
30°	1488.9	1481.0	1458.8	1458.8	1447.7
32.5°	1435.1	1424.0	1408.2	1397.1	1392.3
35°	1376.5	1367.0	1346.5	1337.0	1329.1
37.5°	1318.0	1305.3	1284.8	1273.7	1268.9
40°	1256.3	1246.8	1224.6	1212.0	1205.6
42.5°	1194.6	1183.5	1161.3	1148.7	1142.4
45°	1128.1	1121.8	1101.2	1082.2	1074.3
47.5°	1063.2	1053.8	1034.8	1015.8	1009.5
50°	996.8	988.9	968.3	950.9	941.4
52.5°	927.2	922.4	900.3	886.0	876.5
55°	856.0	854.4	833.8	816.4	808.5
57.5°	789.5	783.2	767.4	751.6	742.1
60°	716.7	715.2	696.2	681.9	674.0
62.5°	651.9	647.1	628.1	613.9	609.2
65°	583.8	575.9	560.1	547.4	542.7
67.5°	511.1	504.7	492.1	481.0	474.7
70°	446.2	436.7	427.2	416.1	408.2
72.5°	378.1	371.8	360.7	351.3	348.1
75°	308.5	302.2	297.5	289.5	284.8
77.5°	246.8	243.7	237.3	231.0	231.0
80°	186.7	182.0	178.8	177.2	177.2
82.5°	128.2	128.2	128.2	125.0	123.4
85°	82.3	79.1	79.1	75.9	75.9
87.5°	41.1	36.4	34.8	33.2	33.2
90°	0.8	8.4	18.4	21.5	23.0
92.5°	17.6	13.0	19.9	25.3	26.1
95°	46.8	15.3	23.8	29.1	29.1
97.5°	85.1	63.7	24.5	30.7	31.4
100°	129.6	144.9	25.3	31.4	32.2
102.5°	180.2	190.2	56.8	31.4	33.0
105°	228.5	237.0	168.0	32.2	33.7
107.5°	279.9	286.8	298.3	180.2	79.8
110°	331.3	337.4	345.9	320.6	210.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	385.8	394.2	401.1	399.6
115°	428.7	433.3	440.2	447.9	450.9
117.5°	476.3	481.6	485.5	491.6	492.4
120°	520.0	526.9	529.2	535.3	535.3
122.5°	564.4	569.8	572.9	576.7	577.5
125°	604.3	610.5	613.5	615.1	616.6
127.5°	644.2	650.3	654.2	656.5	654.9
130°	681.0	687.2	690.2	693.3	691.8
132.5°	716.3	722.4	724.7	727.8	725.5
135°	752.3	756.9	760.0	762.3	760.0
137.5°	783.0	789.2	790.7	794.5	793.0
140°	813.7	818.3	820.6	823.7	822.1
142.5°	842.1	846.7	849.0	851.3	849.0
145°	868.1	873.5	875.0	876.6	876.6
147.5°	893.5	897.3	898.8	900.4	896.5
150°	916.5	918.8	920.3	921.8	919.5
152.5°	937.2	937.9	938.7	941.8	937.9
155°	956.3	954.8	955.6	959.4	954.8
157.5°	971.7	971.7	970.9	975.5	969.4
160°	985.5	984.7	983.9	988.5	983.2
162.5°	998.5	996.2	995.5	1000.8	996.2
165°	1008.5	1006.2	1005.4	1011.6	1006.2
167.5°	1016.9	1013.9	1013.9	1020.0	1013.9
170°	1023.8	1020.8	1020.8	1026.9	1020.8
172.5°	1028.4	1024.6	1025.4	1031.5	1024.6
175°	1032.3	1028.4	1029.2	1034.6	1028.4
177.5°	1033.8	1030.0	1030.7	1036.9	1029.2
180°	1032.3	1032.3	1032.3	1032.3	1032.3

(END OF REPORT)