

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: P1010824

Luminaire Tested: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010824
REPORT IS A COMBINATION OF REPORTS P992930 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

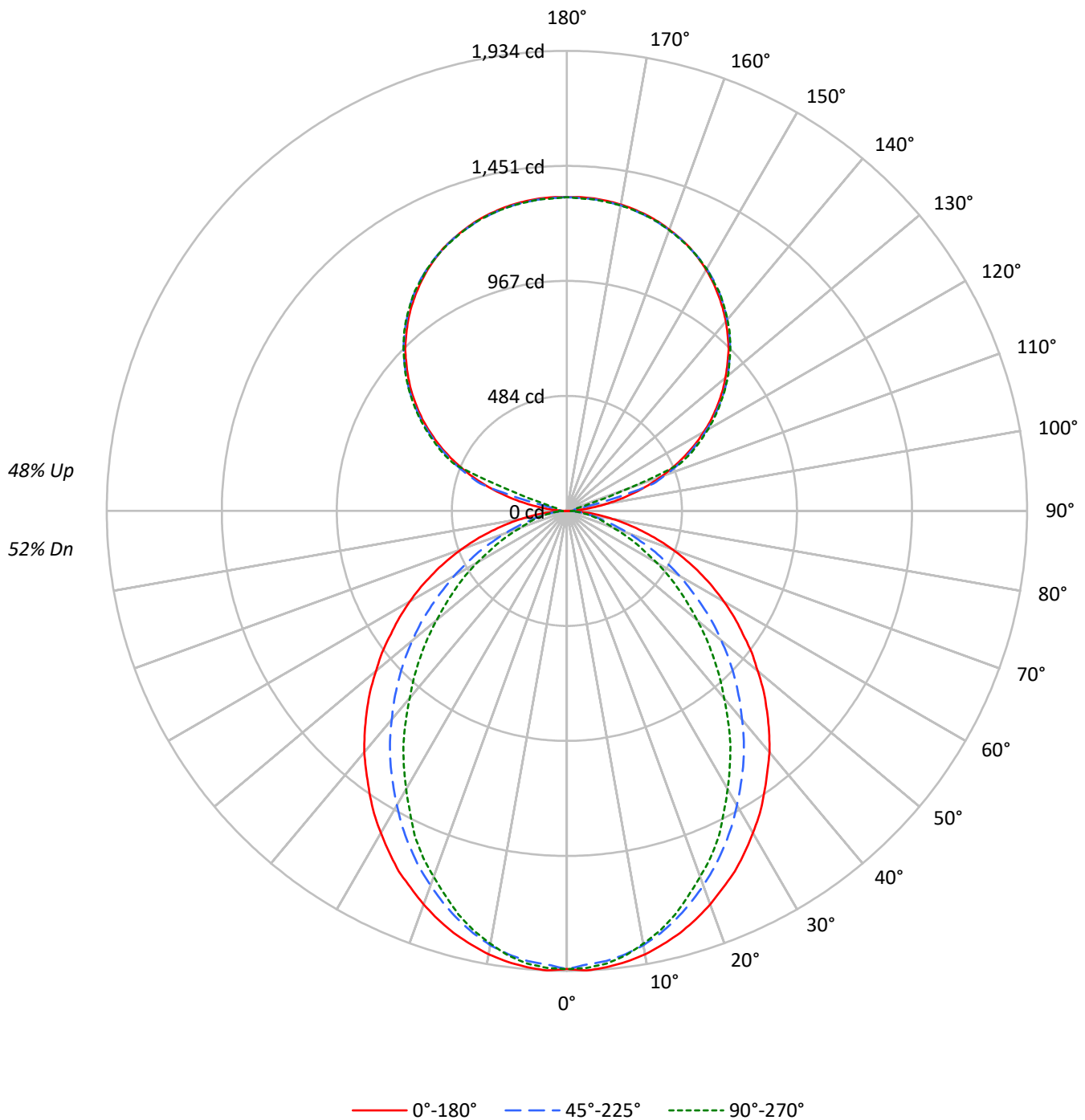
Lumens per Lamp: N/A
Luminaire Lumens: 8374.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V): 120
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	58	58	58
1	99	94	91	87	91	87	84	81	75	72	70	63	61	60	52	51	50	50	50	44
2	90	83	77	72	83	77	72	67	66	62	59	55	53	50	46	44	42	42	42	38
3	82	73	66	60	76	68	62	57	58	54	50	49	46	43	41	39	36	36	36	32
4	75	65	57	51	70	60	54	48	52	47	43	44	40	37	37	34	32	32	32	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	33	30	28	28	28	25
6	64	52	44	38	59	49	42	36	42	37	32	36	32	28	30	27	25	25	25	22
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	24	22	22	22	19
8	55	43	35	30	51	40	33	28	35	29	26	30	26	23	26	22	20	20	20	17
9	51	39	32	27	48	37	30	25	32	27	23	28	23	20	24	20	18	18	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	19	22	19	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20730	20730	20730
5°	20764	19997	19943
10°	20601	19245	18866
15°	20334	18316	17686
20°	19983	17305	16368
25°	19621	16255	15119
30°	19156	15137	13642
35°	18679	14040	12298
40°	18230	12848	10813
45°	17654	11683	9477
50°	17017	10438	8094
55°	16358	9106	6828
60°	15727	7740	5542
65°	14915	6338	4325
70°	13891	4792	3092
75°	12420	3246	2449
80°	10597	2255	1718
85°	7953	1217	900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.2
10°-20°	503.7	6.0
20°-30°	725.2	8.7
30°-40°	816.6	9.8
40°-50°	781.2	9.3
50°-60°	639.4	7.6
60°-70°	431.1	5.1
70°-80°	216.2	2.6
80°-90°	59.2	0.7
90°-100°	46.5	0.6
100°-110°	224.8	2.7
110°-120°	551.0	6.6
120°-130°	699.5	8.4
130°-140°	747.2	8.9
140°-150°	698.7	8.3
150°-160°	563.6	6.7
160°-170°	363.7	4.3
170°-180°	125.3	1.5
0°-30°	1409.9	16.8
0°-40°	2226.5	26.6
0°-60°	3647.1	43.6
0°-90°	4353.6	52.0
90°-120°	822.3	9.8
90°-150°	2967.7	35.4
90°-180°	4020.0	48.0
0°-180°	8374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1926	1918	1899	1913	1910	183
15°	1837	1820	1776	1768	1757	518
25°	1671	1632	1560	1528	1510	769
35°	1446	1390	1293	1226	1198	905
45°	1189	1118	998	909	872	917
55°	903	826	694	603	572	810
65°	617	531	409	333	316	611
75°	326	252	166	150	147	348
85°	83	48	44	41	41	91
90°	1	11	24	27	29	8
95°	60	20	30	37	37	71
105°	292	303	215	41	43	310
115°	548	554	562	572	576	541
125°	772	780	784	786	788	690
135°	961	967	971	974	971	740
145°	1109	1116	1118	1120	1120	694
155°	1222	1220	1221	1226	1220	563
165°	1288	1286	1284	1292	1286	364
175°	1319	1314	1315	1322	1314	126
180°	1319	1319	1319	1319	1319	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1933.7	1927.5	1908.7	1925.9	1922.8
5°	1925.9	1918.1	1899.4	1913.4	1910.3
7.5°	1911.9	1904.1	1880.6	1890.0	1885.3
10°	1893.1	1882.2	1854.1	1855.6	1847.8
12.5°	1866.6	1854.1	1818.1	1816.6	1807.2
15°	1836.9	1819.7	1776.0	1768.2	1757.2
17.5°	1801.0	1782.2	1727.6	1711.9	1696.3
20°	1760.4	1735.4	1676.0	1655.7	1637.0
22.5°	1715.1	1685.4	1621.3	1594.8	1577.6
25°	1671.3	1632.3	1560.4	1527.6	1510.4
27.5°	1618.2	1576.0	1497.9	1454.2	1427.7
30°	1563.5	1516.7	1429.2	1376.1	1351.1
32.5°	1508.9	1454.2	1360.5	1301.1	1274.6
35°	1446.4	1390.2	1293.3	1226.2	1198.0
37.5°	1383.9	1323.0	1221.5	1146.5	1112.1
40°	1324.6	1255.8	1144.9	1063.7	1027.8
42.5°	1257.4	1188.7	1073.1	982.5	951.2
45°	1188.7	1118.4	998.1	909.1	871.6
47.5°	1121.5	1043.4	924.7	827.8	795.0
50°	1046.5	973.1	846.6	749.8	713.8
52.5°	979.4	898.1	773.2	671.7	640.4
55°	902.8	826.3	693.5	602.9	571.7
57.5°	834.1	751.3	617.0	531.1	504.5
60°	762.2	676.3	546.7	462.3	435.8
62.5°	690.4	604.5	474.8	396.7	368.6
65°	617.0	531.1	409.2	332.7	315.5
67.5°	543.6	456.1	337.4	279.6	260.9
70°	471.7	387.4	278.0	223.4	206.2
72.5°	399.9	317.1	220.2	178.1	173.4
75°	326.5	251.5	165.6	150.0	146.8
77.5°	259.3	190.6	129.6	120.3	117.1
80°	195.2	131.2	98.4	93.7	90.6
82.5°	134.3	81.2	70.3	65.6	65.6
85°	82.8	48.4	43.7	40.6	40.6
87.5°	37.5	20.3	20.3	18.7	17.2
90°	1.0	10.8	23.5	27.4	29.4
92.5°	22.5	16.7	25.5	32.3	33.3
95°	59.8	19.6	30.4	37.2	37.2
97.5°	108.8	81.3	31.4	39.2	40.2
100°	165.6	185.2	32.3	40.2	41.2
102.5°	230.2	243.0	72.5	40.2	42.1
105°	292.0	302.7	214.6	41.2	43.1
107.5°	357.6	366.4	381.1	230.2	101.9
110°	423.3	431.1	441.9	409.5	269.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.0	492.8	503.6	512.4	510.5
115°	547.7	553.6	562.4	572.2	576.1
117.5°	608.4	615.3	620.2	628.0	629.0
120°	664.3	673.1	676.0	683.9	683.9
122.5°	721.1	728.0	731.9	736.8	737.8
125°	772.1	779.9	783.8	785.8	787.7
127.5°	823.0	830.8	835.7	838.7	836.7
130°	870.0	877.9	881.8	885.7	883.7
132.5°	915.1	922.9	925.9	929.8	926.9
135°	961.2	967.0	970.9	973.9	970.9
137.5°	1000.3	1008.2	1010.1	1015.0	1013.1
140°	1039.5	1045.4	1048.3	1052.3	1050.3
142.5°	1075.8	1081.7	1084.6	1087.5	1084.6
145°	1109.1	1116.0	1117.9	1119.9	1119.9
147.5°	1141.4	1146.3	1148.3	1150.2	1145.3
150°	1170.8	1173.8	1175.7	1177.7	1174.7
152.5°	1197.3	1198.3	1199.2	1203.2	1198.3
155°	1221.8	1219.8	1220.8	1225.7	1219.8
157.5°	1241.4	1241.4	1240.4	1246.3	1238.4
160°	1259.0	1258.0	1257.0	1262.9	1256.1
162.5°	1275.7	1272.7	1271.7	1278.6	1272.7
165°	1288.4	1285.5	1284.5	1292.3	1285.5
167.5°	1299.2	1295.3	1295.3	1303.1	1295.3
170°	1308.0	1304.1	1304.1	1311.9	1304.1
172.5°	1313.9	1309.0	1309.9	1317.8	1309.0
175°	1318.8	1313.9	1314.8	1321.7	1313.9
177.5°	1320.7	1315.8	1316.8	1324.6	1314.8
180°	1318.8	1318.8	1318.8	1318.8	1318.8

(END OF REPORT)