

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: P1012269

Luminaire Tested: S123RDIP-B1165D1025UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012269
REPORT IS A COMBINATION OF REPORTS P992938 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1025UB30-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

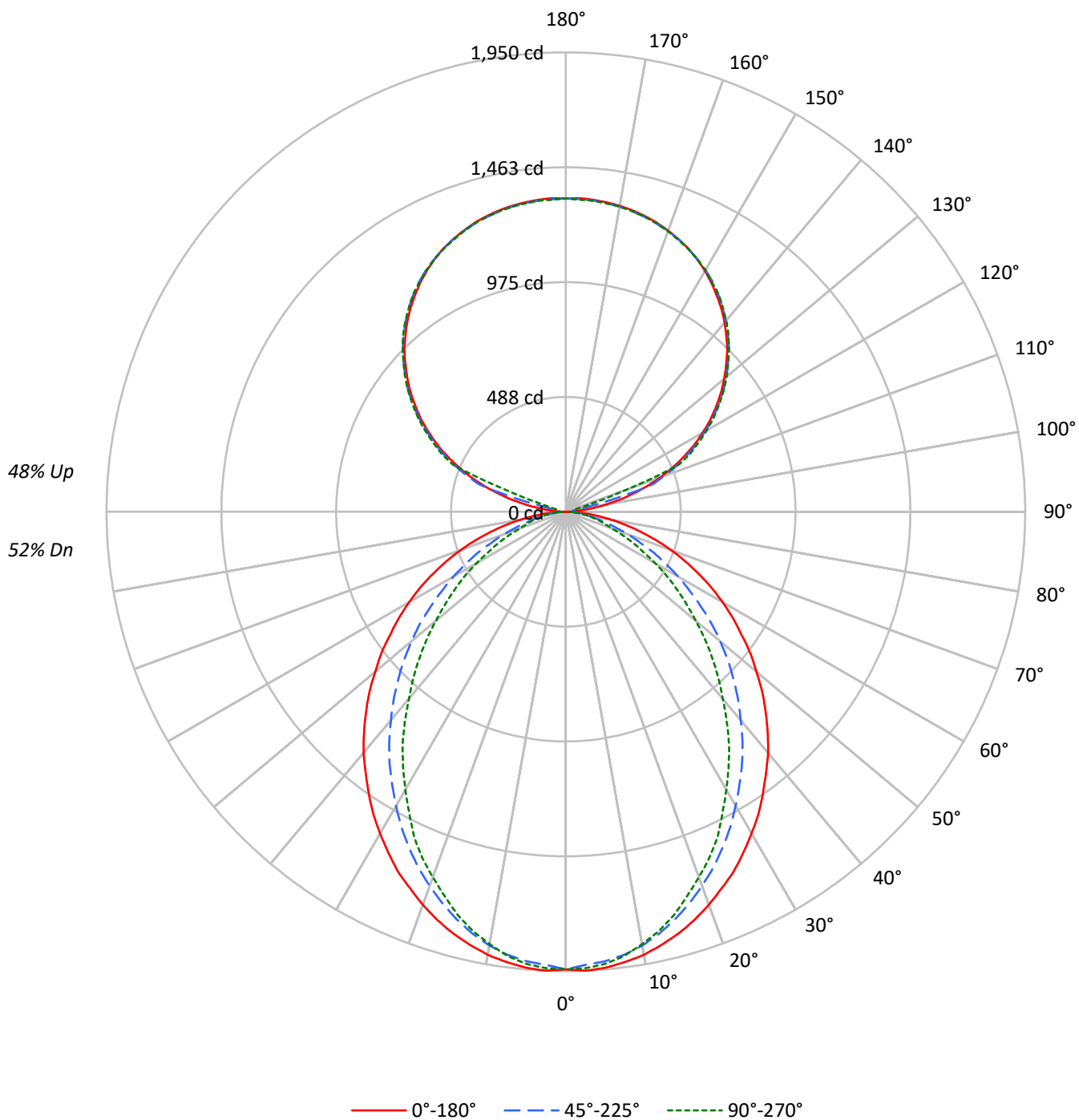
Lumens per Lamp: N/A
Luminaire Lumens: 8445.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20907	20907	20907
5°	20941	20167	20112
10°	20776	19408	19026
15°	20506	18472	17837
20°	20152	17453	16507
25°	19787	16393	15248
30°	19319	15266	13759
35°	18838	14159	12402
40°	18384	12958	10904
45°	17804	11782	9558
50°	17162	10527	8164
55°	16498	9184	6885
60°	15862	7805	5589
65°	15041	6392	4362
70°	14009	4834	3117
75°	12523	3274	2471
80°	10690	2274	1733
85°	8021	1228	909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.2
10°-20°	507.9	6.0
20°-30°	731.3	8.7
30°-40°	823.6	9.8
40°-50°	787.8	9.3
50°-60°	644.9	7.6
60°-70°	434.8	5.1
70°-80°	218.1	2.6
80°-90°	59.7	0.7
90°-100°	46.9	0.6
100°-110°	226.7	2.7
110°-120°	555.6	6.6
120°-130°	705.4	8.4
130°-140°	753.5	8.9
140°-150°	704.6	8.3
150°-160°	568.4	6.7
160°-170°	366.8	4.3
170°-180°	126.4	1.5
0°-30°	1421.8	16.8
0°-40°	2245.4	26.6
0°-60°	3678.1	43.6
0°-90°	4390.7	52.0
90°-120°	829.3	9.8
90°-150°	2992.8	35.4
90°-180°	4054.0	48.0
0°-180°	8445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1942	1934	1916	1930	1926	184
15°	1852	1835	1791	1783	1772	522
25°	1686	1646	1574	1541	1523	775
35°	1459	1402	1304	1237	1208	913
45°	1199	1128	1007	917	879	925
55°	910	833	699	608	576	817
65°	622	536	413	336	318	616
75°	329	254	167	151	148	351
85°	84	49	44	41	41	91
90°	1	11	24	28	30	9
95°	60	20	31	38	38	72
105°	294	305	216	42	44	312
115°	552	558	567	577	581	545
125°	779	786	790	792	794	696
135°	969	975	979	982	979	746
145°	1118	1125	1127	1129	1129	700
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1950.2	1943.9	1925.0	1942.3	1939.1
5°	1942.3	1934.4	1915.5	1929.7	1926.5
7.5°	1928.1	1920.2	1896.6	1906.1	1901.3
10°	1909.2	1898.2	1869.8	1871.4	1863.5
12.5°	1882.4	1869.8	1833.6	1832.0	1822.6
15°	1852.5	1835.2	1791.1	1783.2	1772.2
17.5°	1816.3	1797.4	1742.2	1726.5	1710.7
20°	1775.3	1750.1	1690.3	1669.8	1650.9
22.5°	1729.6	1699.7	1635.1	1608.3	1591.0
25°	1685.5	1646.2	1573.7	1540.6	1523.3
27.5°	1632.0	1589.4	1510.7	1466.6	1439.8
30°	1576.8	1529.6	1441.4	1387.8	1362.6
32.5°	1521.7	1466.6	1372.1	1312.2	1285.4
35°	1458.7	1402.0	1304.3	1236.6	1208.2
37.5°	1395.7	1334.2	1231.9	1156.2	1121.6
40°	1335.8	1266.5	1154.7	1072.8	1036.5
42.5°	1268.1	1198.8	1082.2	990.8	959.3
45°	1198.8	1127.9	1006.6	916.8	879.0
47.5°	1131.0	1052.3	932.6	834.9	801.8
50°	1055.4	981.4	853.8	756.1	719.9
52.5°	987.7	905.8	779.8	677.4	645.9
55°	910.5	833.3	699.4	608.1	576.5
57.5°	841.2	757.7	622.2	535.6	508.8
60°	768.7	682.1	551.3	466.3	439.5
62.5°	696.3	609.6	478.9	400.1	371.8
65°	622.2	535.6	412.7	335.5	318.2
67.5°	548.2	460.0	340.3	282.0	263.1
70°	475.7	390.7	280.4	225.3	207.9
72.5°	403.3	319.8	222.1	179.6	174.9
75°	329.2	253.6	167.0	151.2	148.1
77.5°	261.5	192.2	130.7	121.3	118.1
80°	196.9	132.3	99.2	94.5	91.4
82.5°	135.5	81.9	70.9	66.2	66.2
85°	83.5	48.8	44.1	41.0	41.0
87.5°	37.8	20.5	20.5	18.9	17.3
90°	1.0	10.9	23.7	27.7	29.6
92.5°	22.7	16.8	25.7	32.6	33.6
95°	60.3	19.8	30.6	37.5	37.5
97.5°	109.7	82.0	31.6	39.5	40.5
100°	167.0	186.7	32.6	40.5	41.5
102.5°	232.2	245.0	73.1	40.5	42.5
105°	294.4	305.3	216.4	41.5	43.5
107.5°	360.6	369.5	384.3	232.2	102.8
110°	426.8	434.7	445.6	413.0	271.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.1	497.0	507.9	516.7	514.8
115°	552.3	558.2	567.1	577.0	581.0
117.5°	613.6	620.5	625.4	633.3	634.3
120°	669.9	678.8	681.8	689.7	689.7
122.5°	727.2	734.1	738.1	743.0	744.0
125°	778.6	786.5	790.4	792.4	794.4
127.5°	830.0	837.9	842.8	845.8	843.8
130°	877.4	885.3	889.2	893.2	891.2
132.5°	922.8	930.7	933.7	937.7	934.7
135°	969.3	975.2	979.2	982.1	979.2
137.5°	1008.8	1016.7	1018.7	1023.6	1021.6
140°	1048.3	1054.2	1057.2	1061.2	1059.2
142.5°	1084.9	1090.8	1093.8	1096.7	1093.8
145°	1118.5	1125.4	1127.4	1129.3	1129.3
147.5°	1151.1	1156.0	1158.0	1160.0	1155.0
150°	1180.7	1183.7	1185.7	1187.6	1184.7
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)