

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: P1010866

Luminaire Tested: S123RDIP-B1165D805UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010866
REPORT IS A COMBINATION OF REPORTS P993092 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D805UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

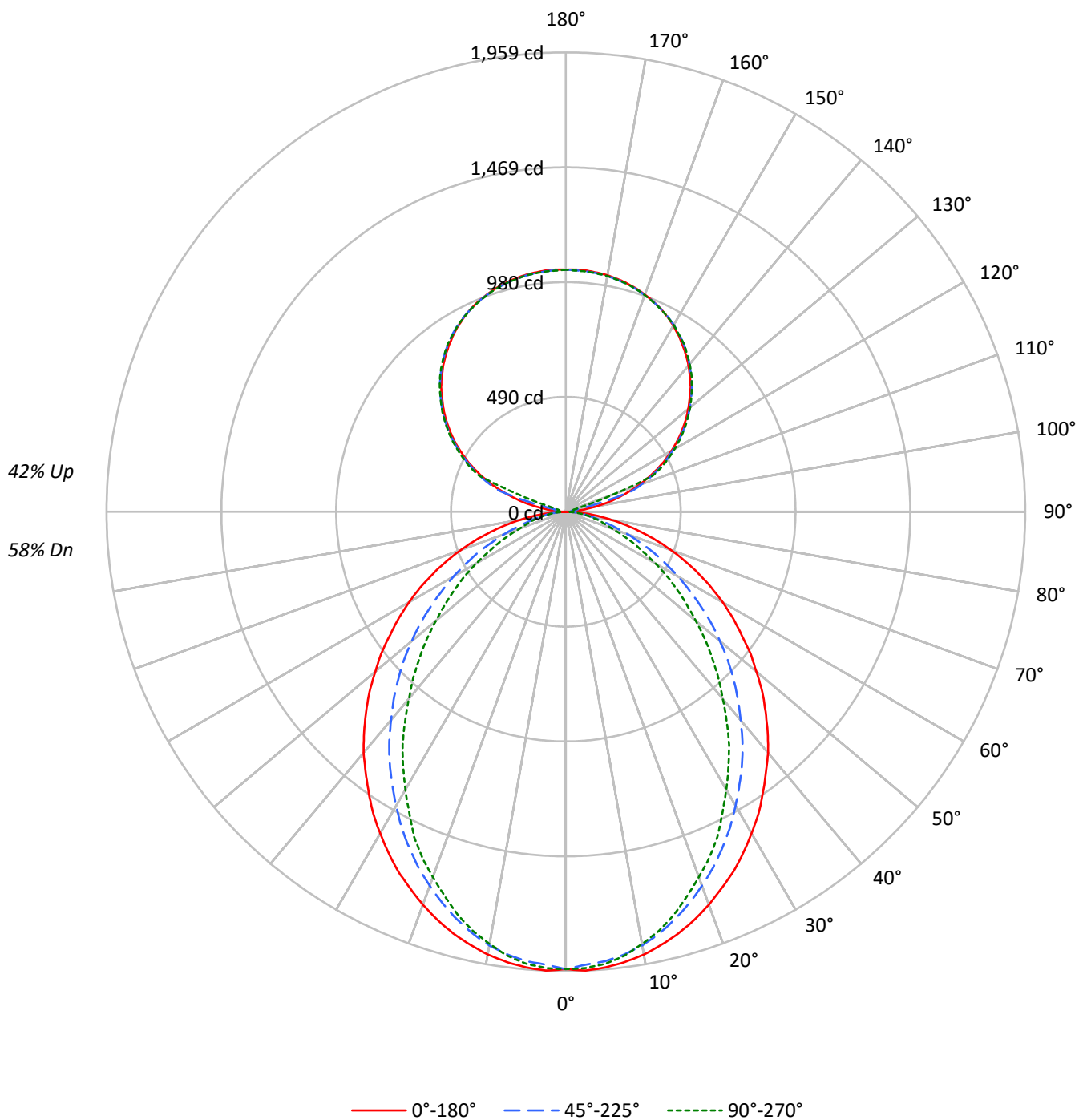
Lumens per Lamp: N/A
Luminaire Lumens: 7556.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10	0
RCR																						
0	109	109	109	109		102	102	102	102		88	88	88		75	75	75		64	64	64	58
1	100	96	92	89		93	90	86	83		78	75	73		67	65	64		57	56	55	50
2	91	84	78	73		85	79	73	69		69	65	61		59	56	54		51	49	47	42
3	84	74	67	61		78	70	63	58		61	56	52		53	49	46		45	42	40	36
4	77	66	58	52		71	62	55	50		54	49	45		47	43	40		41	37	35	31
5	71	59	51	45		66	55	48	43		49	43	39		43	38	35		37	33	31	28
6	65	53	45	39		61	50	43	37		44	38	34		39	34	30		33	30	27	24
7	60	48	40	35		56	45	38	33		40	34	30		35	31	27		31	27	24	22
8	56	44	36	31		52	41	34	29		37	31	27		32	28	24		28	25	22	20
9	52	40	33	28		49	38	31	26		34	28	24		30	25	22		26	22	20	18
10	49	37	30	25		46	35	28	24		31	26	22		28	23	20		24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20997	20997	20997
5°	21031	20254	20200
10°	20866	19492	19109
15°	20595	18551	17913
20°	20240	17528	16578
25°	19873	16464	15314
30°	19404	15332	13818
35°	18919	14221	12457
40°	18464	13014	10952
45°	17881	11834	9599
50°	17237	10573	8199
55°	16568	9223	6915
60°	15932	7839	5613
65°	15106	6420	4382
70°	14071	4854	3131
75°	12580	3287	2481
80°	10738	2285	1741
85°	8059	1234	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.4
10°-20°	510.1	6.8
20°-30°	734.5	9.7
30°-40°	827.2	10.9
40°-50°	791.2	10.5
50°-60°	647.7	8.6
60°-70°	436.7	5.8
70°-80°	219.0	2.9
80°-90°	59.3	0.8
90°-100°	36.4	0.5
100°-110°	176.0	2.3
110°-120°	431.3	5.7
120°-130°	547.5	7.2
130°-140°	584.9	7.7
140°-150°	546.9	7.2
150°-160°	441.1	5.8
160°-170°	284.7	3.8
170°-180°	98.1	1.3
0°-30°	1428.0	18.9
0°-40°	2255.2	29.8
0°-60°	3694.0	48.9
0°-90°	4409.1	58.4
90°-120°	643.7	8.5
90°-150°	2323.0	30.7
90°-180°	3147.0	41.6
0°-180°	7556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1951	1943	1924	1938	1935	185
15°	1860	1843	1799	1791	1780	524
25°	1693	1653	1580	1547	1530	779
35°	1465	1408	1310	1242	1214	917
45°	1204	1133	1011	921	883	929
55°	914	837	702	611	579	820
65°	625	538	414	337	320	618
75°	331	255	168	152	149	352
85°	84	49	44	41	41	92
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°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1958.6	1952.3	1933.3	1950.7	1947.5
5°	1950.7	1942.8	1923.8	1938.1	1934.9
7.5°	1936.5	1928.6	1904.8	1914.3	1909.6
10°	1917.5	1906.4	1877.9	1879.5	1871.6
12.5°	1890.6	1877.9	1841.5	1840.0	1830.5
15°	1860.5	1843.1	1798.8	1790.9	1779.8
17.5°	1824.1	1805.2	1749.8	1734.0	1718.1
20°	1783.0	1757.7	1697.6	1677.0	1658.0
22.5°	1737.1	1707.1	1642.2	1615.3	1597.9
25°	1692.8	1653.3	1580.5	1547.3	1529.9
27.5°	1639.0	1596.3	1517.2	1472.9	1446.0
30°	1583.7	1536.2	1447.6	1393.8	1368.5
32.5°	1528.3	1472.9	1378.0	1317.9	1291.0
35°	1465.0	1408.1	1310.0	1241.9	1213.5
37.5°	1401.7	1340.0	1237.2	1161.2	1126.4
40°	1341.6	1272.0	1159.7	1077.4	1041.0
42.5°	1273.6	1204.0	1086.9	995.1	963.5
45°	1204.0	1132.8	1011.0	920.8	882.8
47.5°	1135.9	1056.8	936.6	838.5	805.3
50°	1060.0	985.6	857.5	759.4	723.0
52.5°	992.0	909.7	783.1	680.3	648.7
55°	914.4	836.9	702.4	610.7	579.0
57.5°	844.8	761.0	624.9	537.9	511.0
60°	772.1	685.0	553.7	468.3	441.4
62.5°	699.3	612.3	481.0	401.8	373.4
65°	624.9	537.9	414.5	337.0	319.6
67.5°	550.6	462.0	341.7	283.2	264.2
70°	477.8	392.4	281.6	226.2	208.8
72.5°	405.0	321.2	223.1	180.4	175.6
75°	330.7	254.7	167.7	151.9	148.7
77.5°	262.6	193.0	131.3	121.8	118.7
80°	197.8	132.9	99.7	94.9	91.8
82.5°	136.1	82.3	71.2	66.4	66.4
85°	83.9	49.0	44.3	41.1	41.1
87.5°	38.0	20.6	20.6	19.0	17.4
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)