

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: P1012277

Luminaire Tested: S123RDIP-B1165D1025UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012277
REPORT IS A COMBINATION OF REPORTS P992946 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1025UB35-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

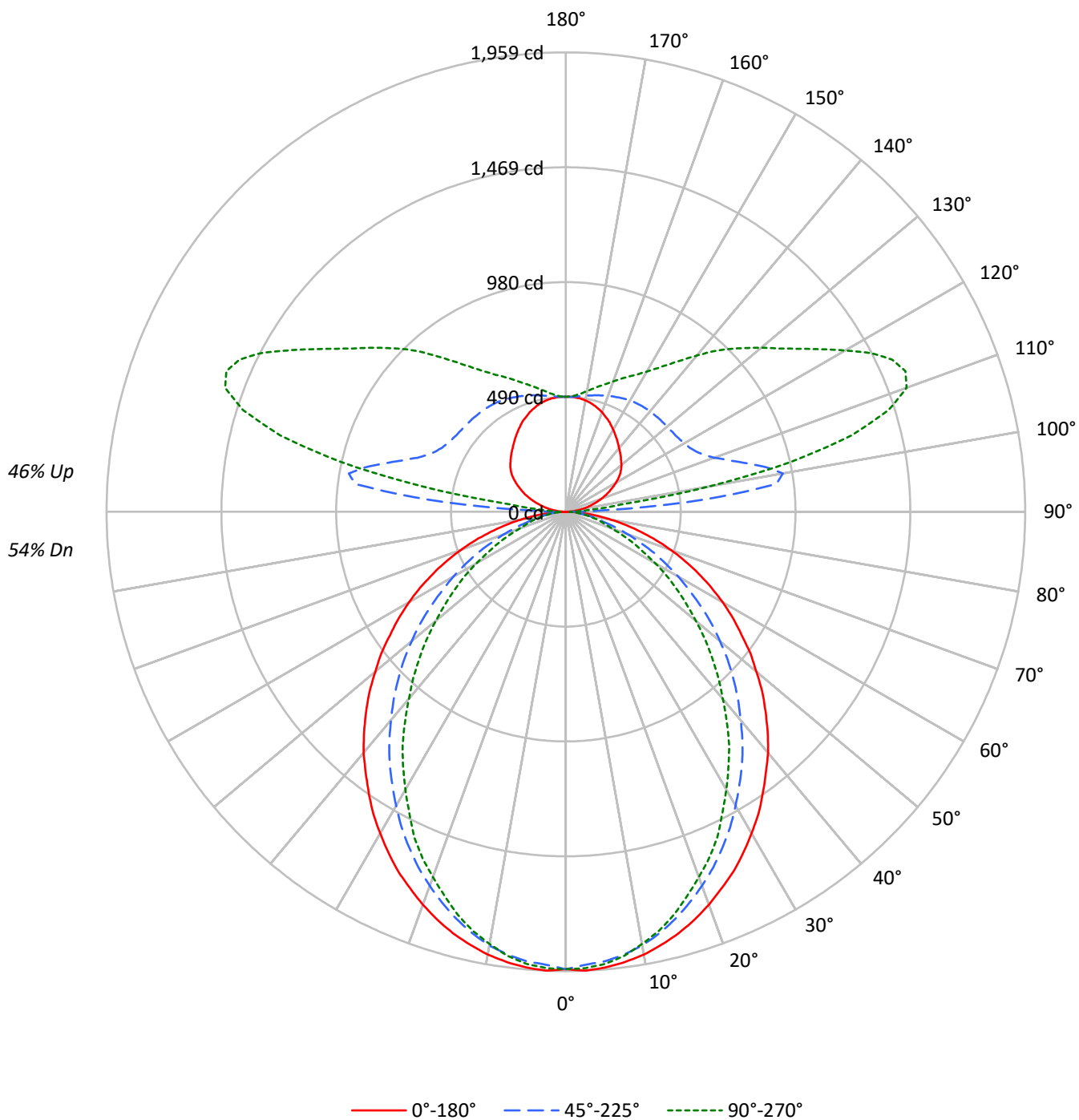
Lumens per Lamp: N/A
Luminaire Lumens: 8106.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V):
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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		72	72	72		60
1	99	95	91	88	92	88	85	82	76	73	71		64	63	61		54
2	91	83	77	72	84	78	72	68	67	63	60		57	54	52		48
3	83	74	66	61	77	69	62	57	59	54	50		51	47	44		43
4	76	65	58	52	70	61	54	49	53	48	43		45	41	38		38
5	70	58	50	44	65	55	47	42	47	42	38		41	37	33		35
6	64	52	44	39	60	49	42	37	43	37	33		37	33	29		32
7	60	48	40	34	55	45	37	32	39	33	29		34	29	26		29
8	55	43	36	30	51	41	34	29	36	30	26		31	27	23		27
9	52	40	32	27	48	37	30	26	33	27	23		29	24	21		25
10	48	36	29	24	45	34	28	23	30	25	21		26	22	19		23

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	2.3
10°-20°	510.1	6.3
20°-30°	734.5	9.1
30°-40°	827.2	10.2
40°-50°	791.2	9.8
50°-60°	647.7	8.0
60°-70°	436.7	5.4
70°-80°	219.0	2.7
80°-90°	60.0	0.7
90°-100°	278.6	3.4
100°-110°	778.8	9.6
110°-120°	759.4	9.4
120°-130°	604.7	7.5
130°-140°	477.3	5.9
140°-150°	356.1	4.4
150°-160°	248.4	3.1
160°-170°	145.9	1.8
170°-180°	47.5	0.6
0°-30°	1428.0	17.6
0°-40°	2255.2	27.8
0°-60°	3694.0	45.6
0°-90°	4409.7	54.4
90°-120°	1816.8	22.4
90°-150°	3255.0	40.2
90°-180°	3697.0	45.6
0°-180°	8106.6	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°	2	12	25	28	29	8
95°	34	110	589	172	115	36
105°	115	170	798	1396	1262	122
115°	204	254	610	1338	1536	201
125°	283	334	570	1032	1211	251
135°	332	396	562	850	982	256
145°	378	433	555	697	767	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	

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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°	2.0	11.9	24.8	27.8	28.8
92.5°	14.9	59.6	184.6	63.0	52.6
95°	33.7	109.6	588.6	171.7	115.1
97.5°	53.6	125.6	905.2	431.8	236.2
100°	73.4	138.4	940.0	903.2	622.3
102.5°	94.3	153.4	875.4	1209.4	985.6
105°	115.1	170.2	798.0	1395.5	1262.5
107.5°	137.0	190.1	729.5	1477.4	1443.2
110°	160.8	210.4	673.0	1480.0	1546.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.6	231.8	635.2	1423.8	1567.3
115°	203.5	253.6	610.4	1338.5	1535.5
117.5°	224.3	274.4	593.6	1247.2	1466.0
120°	246.2	295.3	582.6	1160.8	1374.7
122.5°	265.0	315.1	575.7	1092.8	1289.3
125°	282.9	334.0	569.7	1032.3	1210.9
127.5°	296.8	351.9	566.8	982.6	1143.4
130°	309.7	367.7	563.8	937.0	1087.8
132.5°	319.6	382.1	562.8	894.3	1033.3
135°	331.5	395.5	561.8	850.1	981.6
137.5°	342.4	406.4	559.8	808.4	927.1
140°	353.4	416.4	558.8	767.8	869.5
142.5°	365.3	425.3	556.8	730.6	815.9
145°	378.2	433.2	554.8	697.3	767.3
147.5°	391.1	441.7	551.9	671.4	725.6
150°	404.0	448.6	547.9	648.7	689.8
152.5°	416.9	456.0	542.9	628.8	660.1
155°	429.8	463.6	537.0	610.4	636.2
157.5°	439.7	470.0	532.0	592.6	613.4
160°	451.6	475.4	526.1	576.2	591.6
162.5°	460.5	479.4	520.1	560.8	571.7
165°	469.5	482.9	514.1	545.4	554.8
167.5°	476.4	485.8	508.2	532.0	538.0
170°	482.4	487.4	502.2	520.1	523.1
172.5°	486.4	488.8	497.3	509.7	509.2
175°	489.3	489.8	493.3	500.3	499.3
177.5°	491.3	490.3	490.3	494.3	492.3
180°	490.3	490.3	490.3	490.3	490.3

(END OF REPORT)