

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: P1012336

Luminaire Tested: S123RDIP-B1165D365UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012336
REPORT IS A COMBINATION OF REPORTS P993025 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D365UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

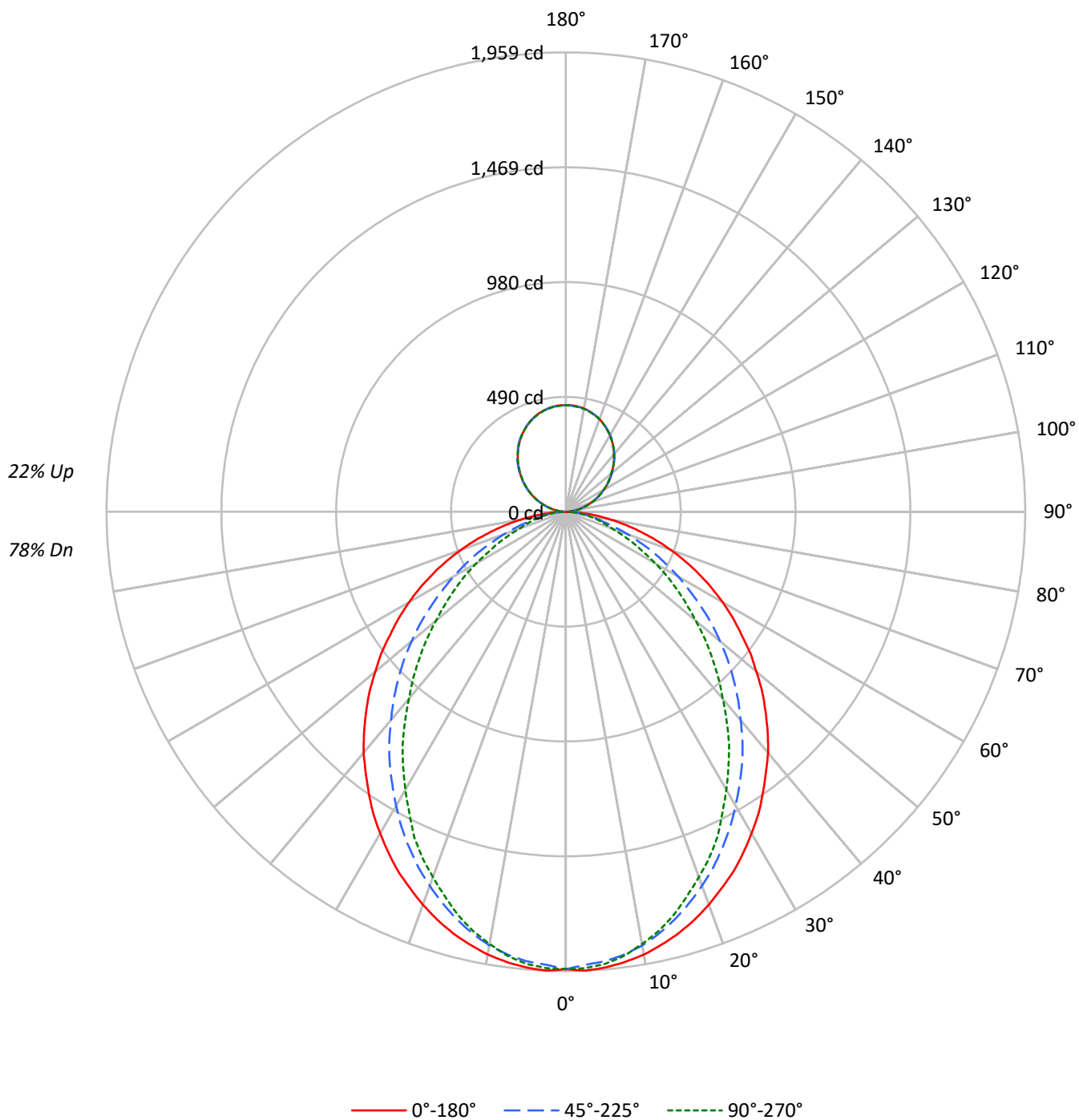
Lumens per Lamp: N/A
Luminaire Lumens: 5667.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82
1	105	100	96	93	100	96	92	89	88	85	82	80	78	76	73	71	70
2	96	88	82	77	91	84	79	74	77	73	69	71	67	64	65	62	60
3	88	78	71	65	83	75	68	63	69	63	59	63	59	55	58	54	51
4	80	69	61	55	77	67	59	54	61	55	51	57	52	48	52	48	45
5	74	62	54	48	71	60	52	47	55	49	44	51	46	42	47	43	39
6	69	56	48	42	65	54	47	41	50	44	39	46	41	37	43	38	35
7	64	51	43	37	61	49	42	36	46	39	35	42	37	33	39	35	31
8	59	47	39	33	57	45	38	33	42	36	31	39	34	30	36	32	28
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26
10	52	40	32	27	50	38	31	27	36	30	25	33	28	24	31	27	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	3.2
10°-20°	510.1	9.0
20°-30°	734.5	13.0
30°-40°	827.2	14.6
40°-50°	791.2	14.0
50°-60°	647.7	11.4
60°-70°	436.7	7.7
70°-80°	219.0	3.9
80°-90°	58.2	1.0
90°-100°	29.3	0.5
100°-110°	88.5	1.6
110°-120°	150.7	2.7
120°-130°	198.3	3.5
130°-140°	222.9	3.9
140°-150°	219.1	3.9
150°-160°	184.5	3.3
160°-170°	122.8	2.2
170°-180°	43.0	0.8
0°-30°	1428.0	25.2
0°-40°	2255.2	39.8
0°-60°	3694.0	65.2
0°-90°	4408.0	77.8
90°-120°	268.5	4.7
90°-150°	908.8	16.0
90°-180°	1259.0	22.2
0°-180°	5667.0	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°	0	4	9	10	11	7
95°	21	24	26	28	28	23
105°	80	81	84	84	85	86
115°	152	153	152	152	152	150
125°	222	223	222	221	220	198
135°	288	290	290	288	288	222
145°	350	350	351	351	350	218
155°	400	400	400	402	399	184
165°	436	435	435	437	434	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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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°	0.4	3.9	8.6	10.0	10.7
92.5°	10.7	12.9	15.0	16.1	15.3
95°	21.1	23.6	26.4	27.8	27.8
97.5°	34.6	36.4	38.6	40.3	40.0
100°	48.5	50.7	52.5	53.5	54.3
102.5°	64.6	65.7	68.2	69.2	68.9
105°	80.3	81.0	84.2	84.2	85.0
107.5°	98.9	99.2	100.7	101.7	101.4
110°	116.0	116.7	117.4	118.9	118.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.9	134.2	134.2	136.0	136.0
115°	151.7	152.8	152.1	152.4	152.1
117.5°	169.9	170.3	169.5	169.5	168.5
120°	186.7	188.8	187.0	186.7	186.0
122.5°	204.2	205.6	204.9	203.8	202.7
125°	222.0	223.1	222.4	220.9	219.5
127.5°	238.4	240.6	239.9	237.7	236.3
130°	254.9	257.7	256.6	255.2	252.7
132.5°	271.3	274.1	273.4	271.6	269.9
135°	288.1	290.2	289.8	288.4	287.7
137.5°	303.4	305.2	306.3	304.5	303.4
140°	319.5	321.3	321.6	321.3	318.8
142.5°	334.1	335.9	336.6	336.2	334.5
145°	349.5	350.2	351.2	350.9	349.5
147.5°	362.7	364.1	365.2	365.2	363.0
150°	376.6	377.3	378.0	378.0	375.9
152.5°	388.0	389.1	389.4	390.1	388.4
155°	400.1	400.1	400.5	401.9	399.4
157.5°	410.5	410.1	410.5	411.9	409.8
160°	420.1	419.4	419.4	421.2	419.8
162.5°	428.7	427.6	428.0	429.8	427.3
165°	435.8	434.8	434.8	436.9	434.4
167.5°	441.9	440.5	440.8	443.0	440.8
170°	446.9	445.5	445.5	448.0	445.5
172.5°	450.8	449.4	449.4	451.5	449.0
175°	453.3	451.9	451.9	454.0	451.5
177.5°	454.7	453.3	453.3	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)