

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: P1012337

Luminaire Tested: S123RDIP-B1165D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012337
REPORT IS A COMBINATION OF REPORTS P993026 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-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

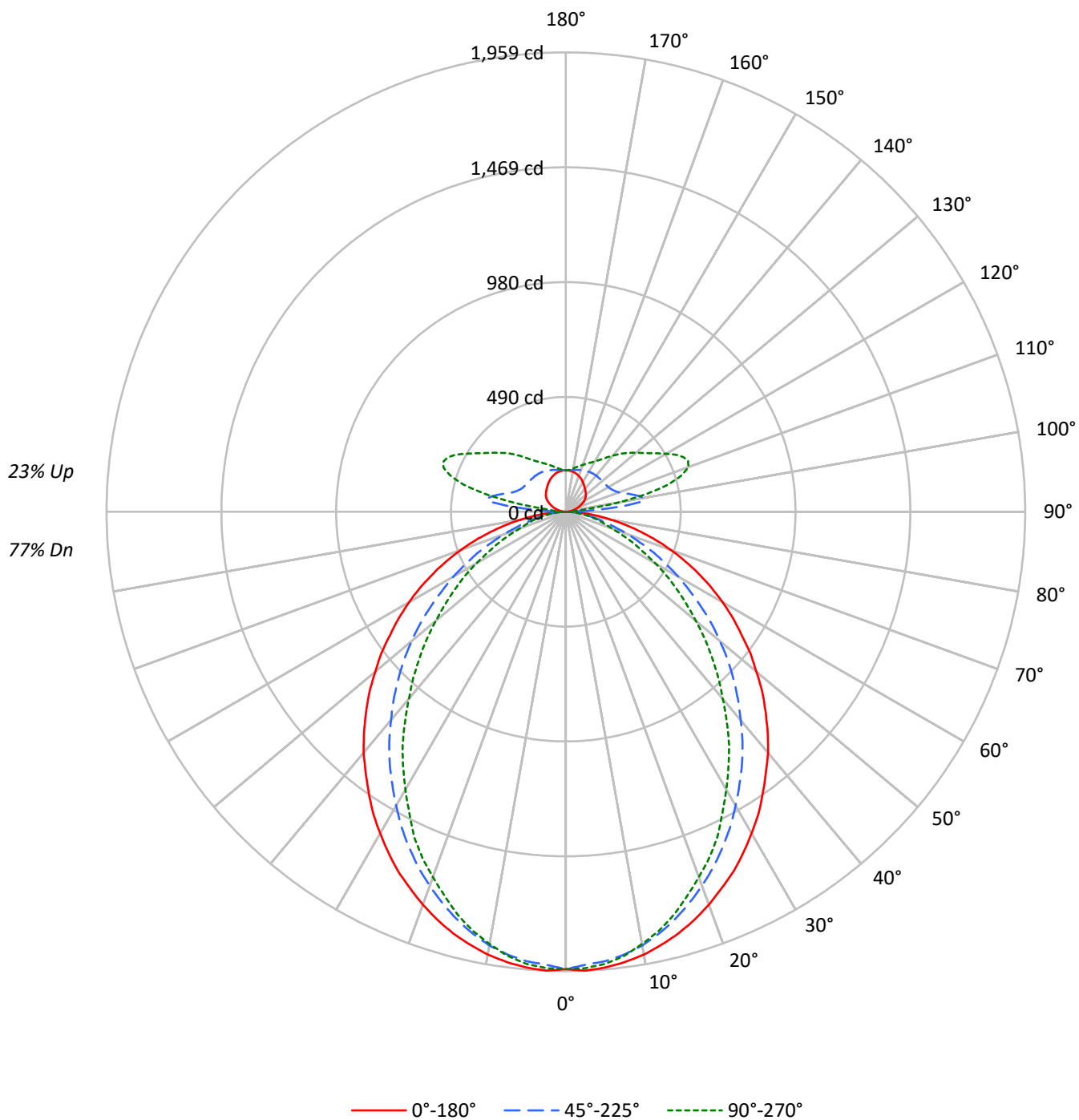
Lumens per Lamp: N/A
Luminaire Lumens: 5738.1 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	100	96	93	99	96	92	89	87	84	82	79	77	75	72	71	69
2	95	88	82	77	91	84	79	74	77	73	69	70	67	64	64	62	59
3	87	78	70	64	83	75	68	62	68	63	58	63	58	55	57	54	51
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	52	48	44
5	74	62	54	48	70	60	52	46	55	49	44	51	45	41	47	42	39
6	68	56	48	42	65	54	46	41	50	43	39	46	41	37	43	38	34
7	64	51	43	37	60	49	42	36	45	39	34	42	37	33	39	34	31
8	59	47	39	33	56	45	37	32	42	35	31	39	33	29	36	31	28
9	55	43	35	30	53	41	34	29	38	32	28	36	30	27	33	29	25
10	52	39	32	27	49	38	31	26	36	30	25	33	28	24	31	26	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	8.9
20°-30°	734.5	12.8
30°-40°	827.2	14.4
40°-50°	791.2	13.8
50°-60°	647.7	11.3
60°-70°	436.7	7.6
70°-80°	219.0	3.8
80°-90°	58.2	1.0
90°-100°	100.2	1.7
100°-110°	280.2	4.9
110°-120°	273.2	4.8
120°-130°	217.6	3.8
130°-140°	171.7	3.0
140°-150°	128.1	2.2
150°-160°	89.4	1.6
160°-170°	52.5	0.9
170°-180°	17.1	0.3
0°-30°	1428.0	24.9
0°-40°	2255.2	39.3
0°-60°	3694.0	64.4
0°-90°	4408.0	76.8
90°-120°	653.7	11.4
90°-150°	1171.1	20.4
90°-180°	1330.0	23.2
0°-180°	5738.1	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	4	9	10	10	6
95°	12	39	212	62	41	13
105°	41	61	287	502	454	44
115°	73	91	220	482	552	72
125°	102	120	205	371	436	90
135°	119	142	202	306	353	92
145°	136	156	200	251	276	85
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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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°	0.7	4.2	8.9	10.0	10.4
92.5°	5.4	21.4	66.4	22.6	18.9
95°	12.1	39.4	211.8	61.8	41.4
97.5°	19.3	45.2	325.7	155.4	85.0
100°	26.4	49.8	338.2	325.0	223.9
102.5°	33.9	55.2	315.0	435.2	354.6
105°	41.4	61.2	287.1	502.2	454.3
107.5°	49.3	68.4	262.5	531.6	519.3
110°	57.9	75.7	242.1	532.5	556.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.7	83.4	228.6	512.2	563.9
115°	73.2	91.2	219.6	481.6	552.5
117.5°	80.7	98.8	213.6	448.7	527.5
120°	88.6	106.2	209.6	417.6	494.6
122.5°	95.4	113.4	207.1	393.2	463.9
125°	101.8	120.2	205.0	371.4	435.7
127.5°	106.8	126.6	203.9	353.6	411.4
130°	111.4	132.3	202.8	337.2	391.4
132.5°	115.0	137.4	202.5	321.8	371.8
135°	119.3	142.3	202.1	305.8	353.2
137.5°	123.2	146.2	201.4	290.9	333.5
140°	127.1	149.8	201.1	276.2	312.8
142.5°	131.4	153.0	200.3	262.8	293.6
145°	136.1	155.9	199.6	250.9	276.1
147.5°	140.7	158.9	198.6	241.6	261.1
150°	145.3	161.4	197.1	233.4	248.2
152.5°	150.0	164.1	195.3	226.2	237.5
155°	154.6	166.8	193.2	219.6	228.9
157.5°	158.2	169.1	191.4	213.2	220.7
160°	162.5	171.0	189.3	207.4	212.8
162.5°	165.7	172.5	187.1	201.8	205.7
165°	168.9	173.8	185.0	196.2	199.6
167.5°	171.4	174.8	182.8	191.4	193.6
170°	173.6	175.4	180.7	187.2	188.2
172.5°	175.0	175.9	178.9	183.4	183.2
175°	176.1	176.2	177.5	180.0	179.6
177.5°	176.8	176.4	176.4	177.8	177.1
180°	176.4	176.4	176.4	176.4	176.4

(END OF REPORT)