

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: P1012393

Luminaire Tested: S123RDIP-B1165D805UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012393
REPORT IS A COMBINATION OF REPORTS P993106 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D805UB35-4F0-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

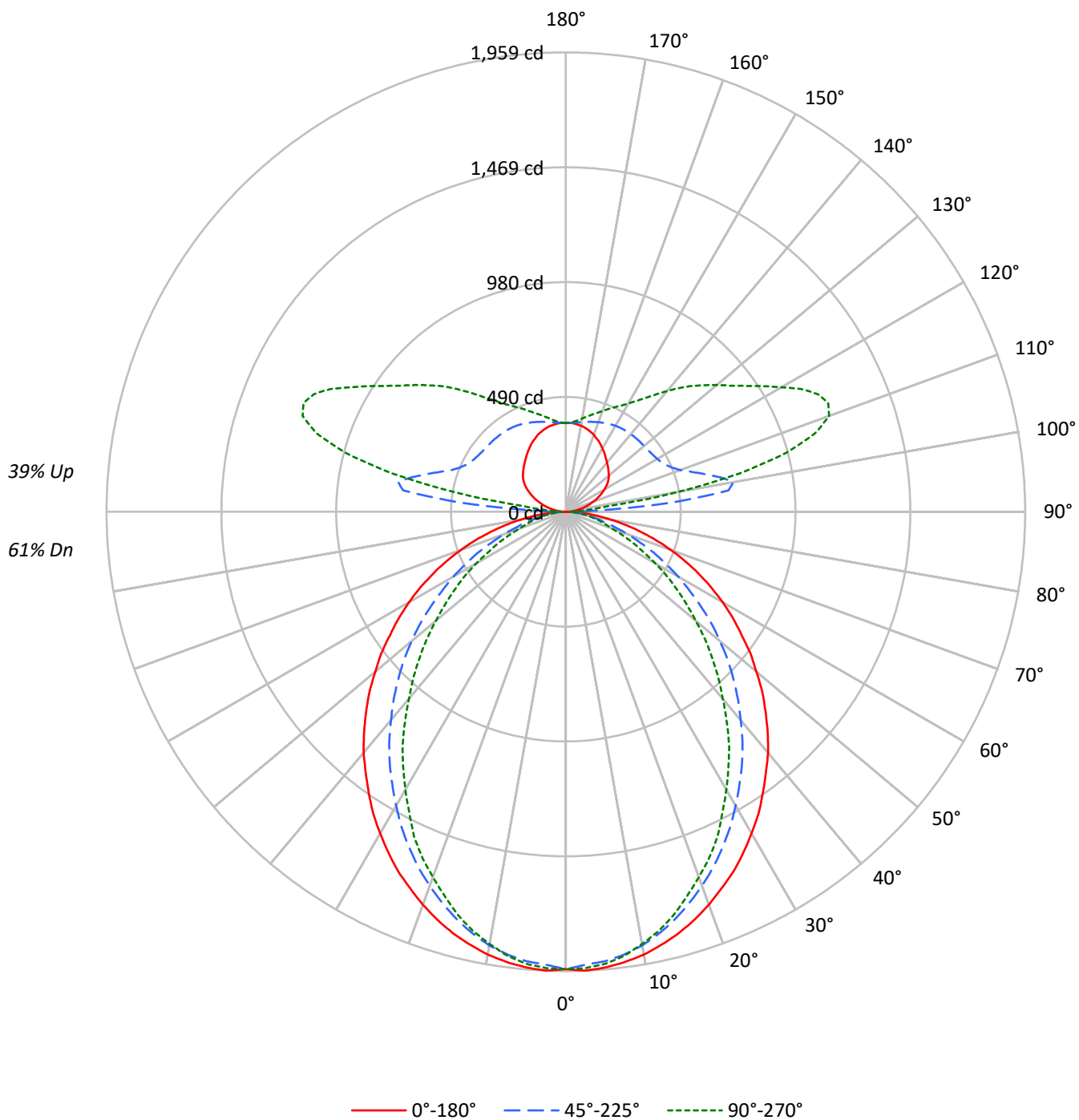
Lumens per Lamp: N/A
Luminaire Lumens: 7265.6 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57
2	92	85	79	73	86	79	74	70	70	66	62	61	58	55	52	50	48
3	84	75	67	62	78	70	64	59	62	57	53	54	50	47	47	44	41
4	77	66	59	53	72	63	56	50	55	50	45	48	44	41	42	39	36
5	71	59	51	45	66	56	49	43	50	44	39	44	39	35	38	34	32
6	66	53	45	40	61	51	43	38	45	39	35	40	35	31	35	31	28
7	61	48	41	35	57	46	39	33	41	35	31	36	31	28	32	28	25
8	56	44	36	31	53	42	35	30	37	32	27	33	28	25	29	25	23
9	53	40	33	28	49	38	31	27	34	29	25	31	26	23	27	23	20
10	49	37	30	25	46	35	29	24	32	26	22	28	24	20	25	21	19

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	2.5
10°-20°	510.1	7.0
20°-30°	734.5	10.1
30°-40°	827.2	11.4
40°-50°	791.2	10.9
50°-60°	647.7	8.9
60°-70°	436.7	6.0
70°-80°	219.0	3.0
80°-90°	59.4	0.8
90°-100°	215.3	3.0
100°-110°	601.8	8.3
110°-120°	586.8	8.1
120°-130°	467.2	6.4
130°-140°	368.8	5.1
140°-150°	275.2	3.8
150°-160°	192.0	2.6
160°-170°	112.8	1.6
170°-180°	36.7	0.5
0°-30°	1428.0	19.7
0°-40°	2255.2	31.0
0°-60°	3694.0	50.8
0°-90°	4409.1	60.7
90°-120°	1403.9	19.3
90°-150°	2515.1	34.6
90°-180°	2857.0	39.3
0°-180°	7265.6	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	9	19	21	22	7
95°	26	85	455	133	89	28
105°	89	132	617	1078	976	94
115°	157	196	472	1034	1186	156
125°	219	258	440	798	936	194
135°	256	306	434	657	758	198
145°	292	335	429	539	593	183
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

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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°	1.5	9.2	19.2	21.4	22.2
92.5°	11.5	46.0	142.7	48.7	40.6
95°	26.1	84.8	454.8	132.7	89.0
97.5°	41.4	97.0	699.5	333.6	182.5
100°	56.8	107.0	726.3	698.0	480.9
102.5°	72.9	118.5	676.4	934.5	761.6
105°	89.0	131.5	616.6	1078.4	975.6
107.5°	105.8	146.8	563.7	1141.6	1115.1
110°	124.2	162.6	520.0	1143.6	1194.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.1	179.0	490.8	1100.2	1211.0
115°	157.2	196.0	471.7	1034.2	1186.5
117.5°	173.3	212.0	458.6	963.6	1132.8
120°	190.2	228.2	450.2	897.0	1062.2
122.5°	204.8	243.6	444.8	844.4	996.3
125°	218.6	258.0	440.2	797.6	935.7
127.5°	229.3	271.8	437.9	759.3	883.5
130°	239.3	284.2	435.6	724.0	840.6
132.5°	247.0	295.2	434.9	691.0	798.4
135°	256.2	305.6	434.1	656.8	758.5
137.5°	264.6	314.1	432.6	624.7	716.3
140°	273.0	321.7	431.8	593.2	671.8
142.5°	282.2	328.6	430.3	564.5	630.4
145°	292.2	334.8	428.7	538.8	592.8
147.5°	302.2	341.3	426.4	518.8	560.6
150°	312.1	346.7	423.4	501.2	533.0
152.5°	322.1	352.4	419.5	485.8	510.0
155°	332.1	358.2	414.9	471.7	491.6
157.5°	339.8	363.2	411.1	457.8	474.0
160°	349.0	367.4	406.5	445.2	457.1
162.5°	355.9	370.4	401.9	433.3	441.8
165°	362.8	373.1	397.3	421.4	428.7
167.5°	368.1	375.4	392.7	411.0	415.7
170°	372.7	376.6	388.1	401.8	404.2
172.5°	375.8	377.7	384.2	393.8	393.4
175°	378.1	378.5	381.2	386.5	385.8
177.5°	379.6	378.9	378.9	381.9	380.4
180°	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)