

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: P1012353

Luminaire Tested: S123RDIP-B1165D585UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012353
REPORT IS A COMBINATION OF REPORTS P993044 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D585UB27-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

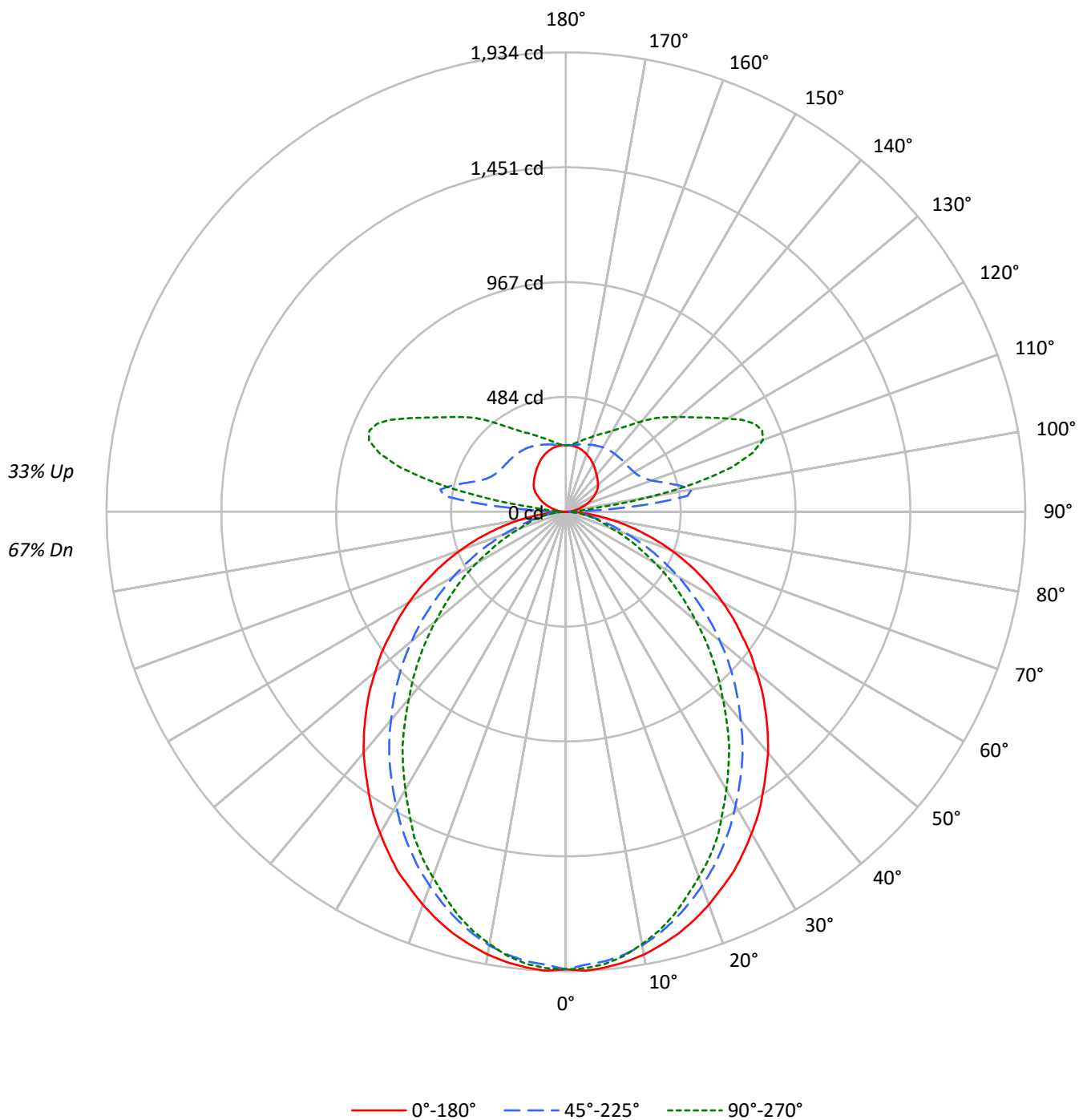
Lumens per Lamp: N/A
Luminaire Lumens: 6462.9 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	98	94	91	96	92	89	86	82	80	77	73	71	69	64	63	62
2	93	86	80	75	88	81	76	71	73	68	65	65	61	59	57	55	53
3	85	76	69	63	80	72	65	60	64	59	55	58	54	50	51	48	45
4	78	68	60	54	74	64	57	51	58	52	47	52	47	43	46	42	39
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35
6	67	55	46	41	63	52	44	39	47	41	36	42	37	33	38	34	31
7	62	49	41	36	58	47	40	35	43	37	32	39	34	30	35	31	27
8	58	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25
9	54	41	34	29	51	40	33	28	36	30	26	33	28	24	30	25	22
10	50	38	31	26	48	36	30	25	33	28	24	30	25	22	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20730	20730	20730
5°	20764	19997	19943
10°	20601	19245	18866
15°	20334	18316	17686
20°	19983	17305	16368
25°	19621	16255	15119
30°	19156	15137	13642
35°	18679	14040	12298
40°	18230	12848	10813
45°	17654	11683	9477
50°	17017	10438	8094
55°	16358	9106	6828
60°	15727	7740	5542
65°	14915	6338	4325
70°	13891	4792	3092
75°	12420	3246	2449
80°	10597	2255	1718
85°	7953	1217	900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.8
10°-20°	503.7	7.8
20°-30°	725.2	11.2
30°-40°	816.6	12.6
40°-50°	781.2	12.1
50°-60°	639.4	9.9
60°-70°	431.1	6.7
70°-80°	216.2	3.3
80°-90°	58.1	0.9
90°-100°	159.1	2.5
100°-110°	444.6	6.9
110°-120°	433.5	6.7
120°-130°	345.2	5.3
130°-140°	272.5	4.2
140°-150°	203.3	3.1
150°-160°	141.8	2.2
160°-170°	83.3	1.3
170°-180°	27.1	0.4
0°-30°	1409.9	21.8
0°-40°	2226.5	34.5
0°-60°	3647.1	56.4
0°-90°	4352.6	67.3
90°-120°	1037.2	16.0
90°-150°	1858.1	28.8
90°-180°	2110.0	32.6
0°-180°	6462.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1926	1918	1899	1913	1910	183
15°	1837	1820	1776	1768	1757	518
25°	1671	1632	1560	1528	1510	769
35°	1446	1390	1293	1226	1198	905
45°	1189	1118	998	909	872	917
55°	903	826	694	603	572	810
65°	617	531	409	333	316	611
75°	326	252	166	150	147	348
85°	83	48	44	41	41	91
90°	1	7	14	16	16	7
95°	19	63	336	98	66	20
105°	66	97	456	797	721	70
115°	116	145	348	764	876	115
125°	162	191	325	589	691	143
135°	189	226	321	485	560	146
145°	216	247	317	398	438	135
155°	245	265	306	348	363	113
165°	268	276	294	311	317	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1933.7	1927.5	1908.7	1925.9	1922.8
5°	1925.9	1918.1	1899.4	1913.4	1910.3
7.5°	1911.9	1904.1	1880.6	1890.0	1885.3
10°	1893.1	1882.2	1854.1	1855.6	1847.8
12.5°	1866.6	1854.1	1818.1	1816.6	1807.2
15°	1836.9	1819.7	1776.0	1768.2	1757.2
17.5°	1801.0	1782.2	1727.6	1711.9	1696.3
20°	1760.4	1735.4	1676.0	1655.7	1637.0
22.5°	1715.1	1685.4	1621.3	1594.8	1577.6
25°	1671.3	1632.3	1560.4	1527.6	1510.4
27.5°	1618.2	1576.0	1497.9	1454.2	1427.7
30°	1563.5	1516.7	1429.2	1376.1	1351.1
32.5°	1508.9	1454.2	1360.5	1301.1	1274.6
35°	1446.4	1390.2	1293.3	1226.2	1198.0
37.5°	1383.9	1323.0	1221.5	1146.5	1112.1
40°	1324.6	1255.8	1144.9	1063.7	1027.8
42.5°	1257.4	1188.7	1073.1	982.5	951.2
45°	1188.7	1118.4	998.1	909.1	871.6
47.5°	1121.5	1043.4	924.7	827.8	795.0
50°	1046.5	973.1	846.6	749.8	713.8
52.5°	979.4	898.1	773.2	671.7	640.4
55°	902.8	826.3	693.5	602.9	571.7
57.5°	834.1	751.3	617.0	531.1	504.5
60°	762.2	676.3	546.7	462.3	435.8
62.5°	690.4	604.5	474.8	396.7	368.6
65°	617.0	531.1	409.2	332.7	315.5
67.5°	543.6	456.1	337.4	279.6	260.9
70°	471.7	387.4	278.0	223.4	206.2
72.5°	399.9	317.1	220.2	178.1	173.4
75°	326.5	251.5	165.6	150.0	146.8
77.5°	259.3	190.6	129.6	120.3	117.1
80°	195.2	131.2	98.4	93.7	90.6
82.5°	134.3	81.2	70.3	65.6	65.6
85°	82.8	48.4	43.7	40.6	40.6
87.5°	37.5	20.3	20.3	18.7	17.2
90°	1.1	6.8	14.2	15.8	16.4
92.5°	8.5	34.0	105.4	36.0	30.0
95°	19.3	62.6	336.0	98.0	65.7
97.5°	30.6	71.7	516.7	246.5	134.9
100°	41.9	79.0	536.6	515.6	355.3
102.5°	53.8	87.6	499.7	690.4	562.6
105°	65.7	97.2	455.5	796.6	720.7
107.5°	78.2	108.5	416.5	843.4	823.8
110°	91.8	120.2	384.2	844.8	882.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.3	132.4	362.6	812.8	894.7
115°	116.2	144.8	348.5	764.0	876.5
117.5°	128.1	156.6	338.8	711.9	836.9
120°	140.5	168.6	332.6	662.6	784.7
122.5°	151.3	179.8	328.6	623.8	736.0
125°	161.5	190.6	325.2	589.2	691.3
127.5°	169.4	200.8	323.5	561.0	652.7
130°	176.8	210.0	321.8	534.8	621.0
132.5°	182.4	218.2	321.3	510.5	589.8
135°	189.2	225.8	320.7	485.2	560.4
137.5°	195.5	232.0	319.6	461.4	529.2
140°	201.7	237.7	319.0	438.2	496.3
142.5°	208.5	242.8	317.9	417.0	465.7
145°	215.9	247.3	316.7	398.0	438.0
147.5°	223.2	252.2	315.0	383.4	414.2
150°	230.6	256.1	312.8	370.3	393.8
152.5°	238.0	260.4	309.9	359.0	376.8
155°	245.3	264.6	306.5	348.5	363.2
157.5°	251.0	268.3	303.7	338.2	350.2
160°	257.8	271.4	300.3	328.9	337.7
162.5°	262.9	273.6	296.9	320.1	326.4
165°	268.0	275.6	293.5	311.4	316.7
167.5°	272.0	277.4	290.1	303.7	307.1
170°	275.4	278.2	286.7	296.9	298.6
172.5°	277.6	279.0	283.9	291.0	290.7
175°	279.3	279.6	281.6	285.6	285.0
177.5°	280.5	279.9	279.9	282.2	281.0
180°	279.9	279.9	279.9	279.9	279.9

(END OF REPORT)