

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: P1012325

Luminaire Tested: S123RDIP-B1165D365UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012325
REPORT IS A COMBINATION OF REPORTS P993004 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D365UB27-4F0-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

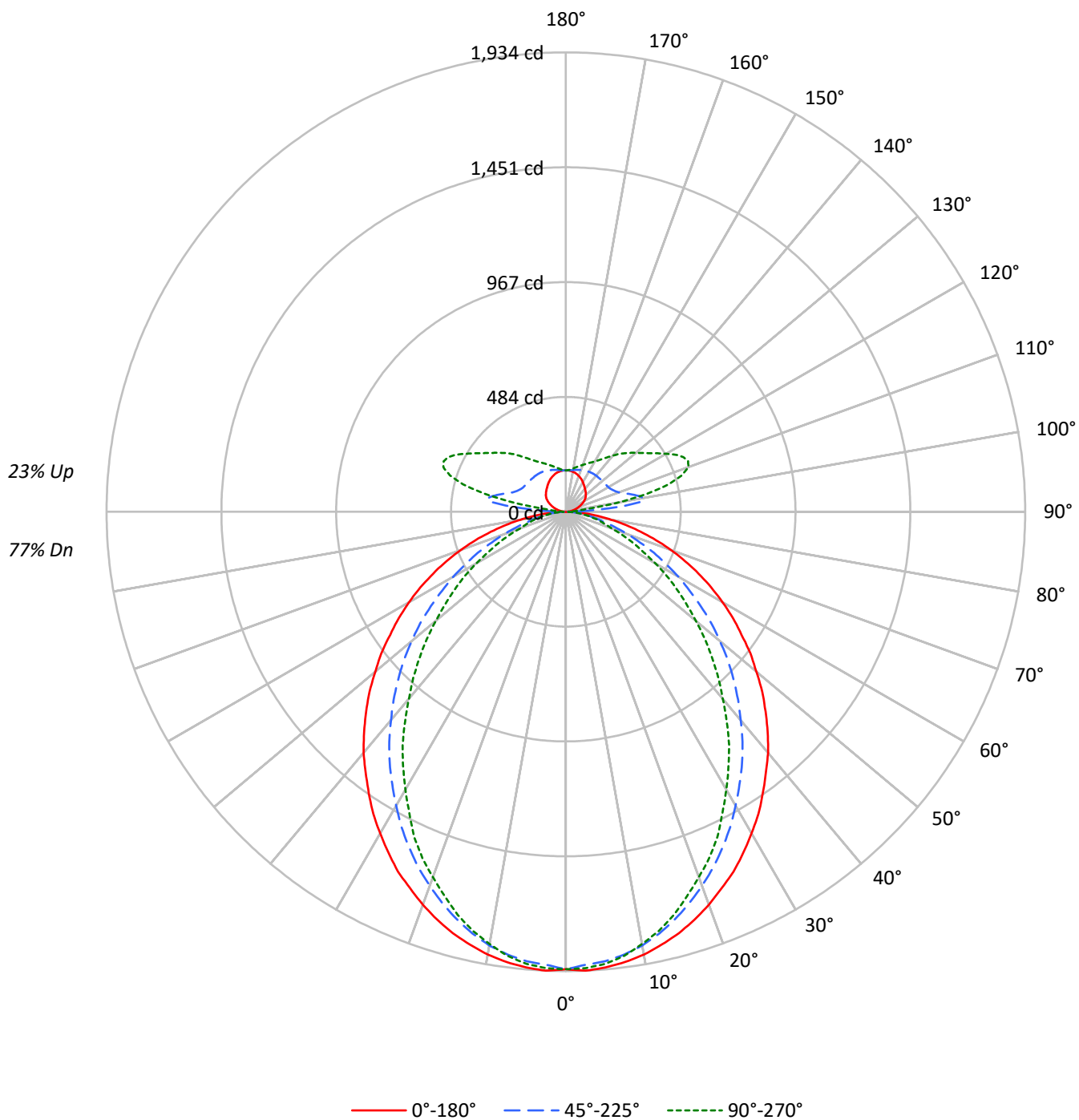
Lumens per Lamp: N/A
Luminaire Lumens: 5665.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	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	3.2
10°-20°	503.7	8.9
20°-30°	725.2	12.8
30°-40°	816.6	14.4
40°-50°	781.2	13.8
50°-60°	639.4	11.3
60°-70°	431.1	7.6
70°-80°	216.2	3.8
80°-90°	57.5	1.0
90°-100°	99.0	1.7
100°-110°	276.6	4.9
110°-120°	269.7	4.8
120°-130°	214.8	3.8
130°-140°	169.5	3.0
140°-150°	126.5	2.2
150°-160°	88.2	1.6
160°-170°	51.8	0.9
170°-180°	16.9	0.3
0°-30°	1409.9	24.9
0°-40°	2226.5	39.3
0°-60°	3647.1	64.4
0°-90°	4352.0	76.8
90°-120°	645.3	11.4
90°-150°	1156.1	20.4
90°-180°	1313.0	23.2
0°-180°	5665.0	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	4	9	10	10	6
95°	12	39	209	61	41	13
105°	41	60	283	496	448	43
115°	72	90	217	475	545	72
125°	100	119	202	367	430	89
135°	118	140	200	302	349	91
145°	134	154	197	248	272	84
155°	153	165	191	217	226	70
165°	167	172	183	194	197	47
175°	174	174	175	178	177	17
180°	174	174	174	174	174	

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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°	0.7	4.2	8.8	9.8	10.2
92.5°	5.3	21.2	65.6	22.4	18.7
95°	12.0	39.0	209.1	61.0	40.9
97.5°	19.0	44.6	321.5	153.4	83.9
100°	26.1	49.2	333.9	320.8	221.0
102.5°	33.5	54.4	310.9	429.6	350.1
105°	40.9	60.4	283.4	495.7	448.4
107.5°	48.7	67.5	259.1	524.8	512.6
110°	57.1	74.8	239.0	525.6	549.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.9	82.4	225.6	505.8	556.7
115°	72.3	90.0	216.8	475.4	545.4
117.5°	79.7	97.5	210.8	443.0	520.7
120°	87.4	104.9	206.9	412.3	488.3
122.5°	94.1	112.0	204.5	388.2	458.0
125°	100.5	118.6	202.4	366.6	430.1
127.5°	105.4	125.0	201.3	349.0	406.1
130°	110.0	130.6	200.2	332.8	386.4
132.5°	113.5	135.7	199.9	317.6	367.0
135°	117.8	140.4	199.5	302.0	348.7
137.5°	121.6	144.4	198.8	287.2	329.3
140°	125.5	147.9	198.5	272.7	308.8
142.5°	129.7	151.0	197.8	259.4	289.8
145°	134.3	153.9	197.1	247.7	272.5
147.5°	138.9	156.9	196.0	238.5	257.7
150°	143.5	159.4	194.6	230.4	245.0
152.5°	148.1	162.0	192.8	223.4	234.4
155°	152.7	164.6	190.7	216.8	226.0
157.5°	156.2	167.0	189.0	210.4	217.9
160°	160.4	168.8	186.8	204.6	210.1
162.5°	163.6	170.3	184.7	199.1	203.1
165°	166.8	171.5	182.6	193.7	197.1
167.5°	169.2	172.6	180.5	189.0	191.1
170°	171.3	173.1	178.4	184.8	185.8
172.5°	172.7	173.6	176.6	181.0	180.9
175°	173.8	174.0	175.2	177.7	177.3
177.5°	174.5	174.2	174.2	175.6	174.9
180°	174.2	174.2	174.2	174.2	174.2

(END OF REPORT)