

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: P1032083

Luminaire Tested: S123RDIW-B1165D1030UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032083
REPORT IS A COMBINATION OF REPORTS P993943 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1165D1030UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

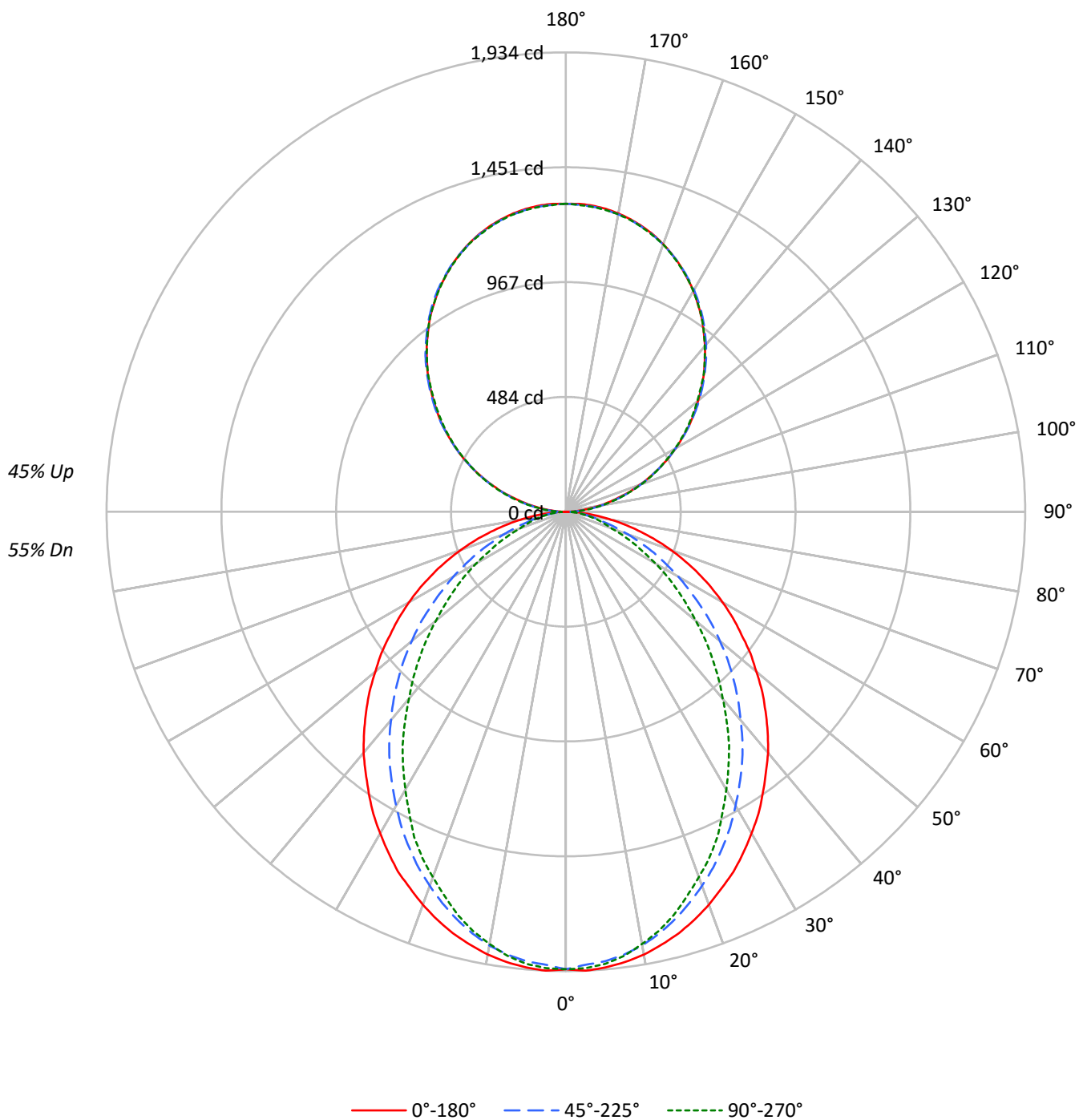
Lumens per Lamp: N/A
Luminaire Lumens: 7947.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	108	108	108	108		101	101	101	101		86	86	86		73	73	73		61	61	61
1	99	95	91	88		92	88	85	82		76	74	71		65	63	61		54	53	52
2	91	83	77	72		84	78	72	68		67	63	60		57	54	52		48	46	44
3	83	74	66	61		77	69	62	57		59	55	51		51	47	44		43	40	38
4	76	65	58	52		70	61	54	49		53	48	43		45	41	38		38	35	33
5	70	58	50	44		65	55	48	42		48	42	38		41	37	33		35	32	29
6	65	53	45	39		60	49	42	37		43	37	33		37	33	29		32	28	26
7	60	48	40	34		55	45	38	33		39	33	29		34	29	26		29	26	23
8	56	43	36	30		52	41	34	29		36	30	26		31	27	23		27	23	21
9	52	40	32	27		48	37	31	26		33	27	23		29	24	21		25	21	19
10	48	36	29	24		45	34	28	23		30	25	21		27	22	19		23	20	17

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	2.3
10°-20°	503.7	6.3
20°-30°	725.2	9.1
30°-40°	816.6	10.3
40°-50°	781.2	9.8
50°-60°	639.4	8.0
60°-70°	431.1	5.4
70°-80°	216.2	2.7
80°-90°	59.3	0.7
90°-100°	83.5	1.1
100°-110°	252.7	3.2
110°-120°	430.1	5.4
120°-130°	565.9	7.1
130°-140°	636.1	8.0
140°-150°	625.3	7.9
150°-160°	526.5	6.6
160°-170°	350.5	4.4
170°-180°	122.7	1.5
0°-30°	1409.9	17.7
0°-40°	2226.5	28.0
0°-60°	3647.1	45.9
0°-90°	4353.7	54.8
90°-120°	766.3	9.6
90°-150°	2593.6	32.6
90°-180°	3593.0	45.2
0°-180°	7947.0	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	11	24	28	31	10
95°	60	67	75	80	80	66
105°	229	231	240	240	242	245
115°	433	436	434	435	434	428
125°	634	637	635	631	626	565
135°	822	828	827	823	821	633
145°	997	999	1002	1001	997	623
155°	1142	1142	1143	1147	1140	526
165°	1244	1241	1241	1247	1240	351
175°	1294	1290	1290	1296	1289	123
180°	1297	1297	1297	1297	1297	

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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°	1.0	11.2	24.4	28.5	30.6
92.5°	30.6	36.7	42.8	45.8	43.8
95°	60.1	67.2	75.4	79.5	79.5
97.5°	98.8	103.9	110.0	115.1	114.1
100°	138.5	144.7	149.8	152.8	154.8
102.5°	184.4	187.4	194.6	197.6	196.6
105°	229.2	231.2	240.4	240.4	242.5
107.5°	282.2	283.2	287.3	290.3	289.3
110°	331.1	333.1	335.2	339.2	337.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.0	383.0	383.0	388.1	388.1
115°	433.0	436.0	434.0	435.0	434.0
117.5°	484.9	485.9	483.9	483.9	480.8
120°	532.8	538.9	533.8	532.8	530.7
122.5°	582.7	586.8	584.7	581.7	578.6
125°	633.6	636.7	634.7	630.6	626.5
127.5°	680.5	686.6	684.6	678.5	674.4
130°	727.4	735.5	732.5	728.4	721.2
132.5°	774.2	782.4	780.3	775.2	770.1
135°	822.1	828.2	827.2	823.1	821.1
137.5°	865.9	871.0	874.1	869.0	865.9
140°	911.7	916.8	917.9	916.8	909.7
142.5°	953.5	958.6	960.6	959.6	954.5
145°	997.3	999.4	1002.4	1001.4	997.3
147.5°	1035.0	1039.1	1042.1	1042.1	1036.0
150°	1074.7	1076.8	1078.8	1078.8	1072.7
152.5°	1107.3	1110.4	1111.4	1113.5	1108.4
155°	1142.0	1142.0	1143.0	1147.1	1139.9
157.5°	1171.5	1170.5	1171.5	1175.6	1169.5
160°	1199.0	1197.0	1197.0	1202.1	1198.0
162.5°	1223.5	1220.4	1221.4	1226.5	1219.4
165°	1243.8	1240.8	1240.8	1246.9	1239.8
167.5°	1261.2	1257.1	1258.1	1264.2	1258.1
170°	1275.4	1271.4	1271.4	1278.5	1271.4
172.5°	1286.6	1282.6	1282.6	1288.7	1281.5
175°	1293.8	1289.7	1289.7	1295.8	1288.7
177.5°	1297.8	1293.8	1293.8	1299.9	1292.7
180°	1296.8	1296.8	1296.8	1296.8	1296.8

(END OF REPORT)