

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: P1011167

Luminaire Tested: S123DIP-B1000D585UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011167
REPORT IS A COMBINATION OF REPORTS P989230 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D585UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

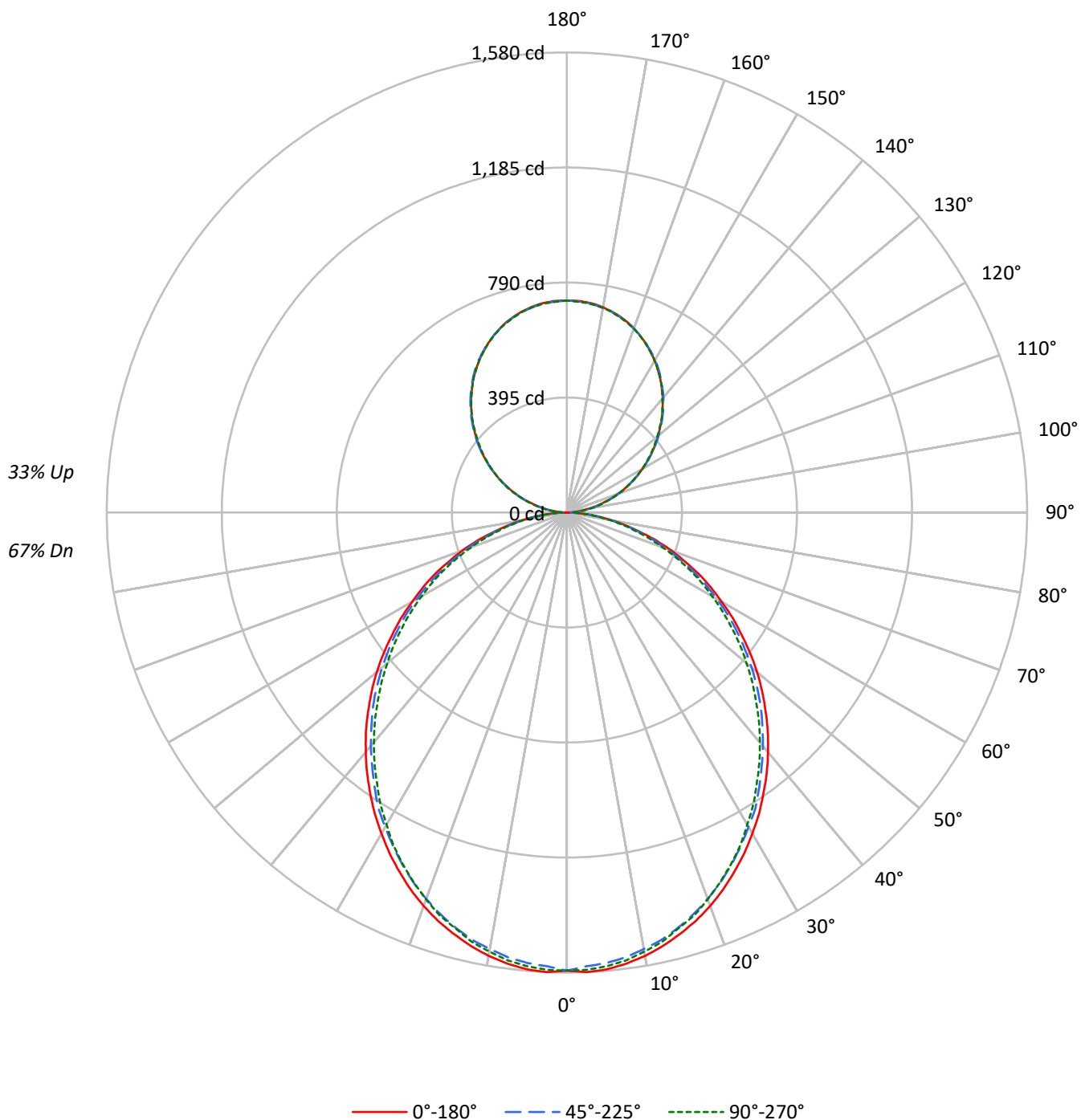
Lumens per Lamp: N/A
Luminaire Lumens: 6113.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	97	93	89	96	92	88	85	81	79	76	72	70	68	63	62	60
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	56	53	51
3	84	74	67	61	79	70	64	58	63	57	53	56	52	48	49	46	43
4	77	66	58	52	72	63	55	49	56	50	45	50	45	41	44	40	37
5	71	59	50	44	67	56	48	43	50	44	39	45	40	36	40	36	32
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16937	16937	16937
5°	16979	16352	16328
10°	16828	15798	15636
15°	16593	15222	14883
20°	16326	14585	14137
25°	15978	13910	13339
30°	15598	13212	12499
35°	15200	12498	11666
40°	14784	11751	10845
45°	14325	11021	9988
50°	13859	10209	9129
55°	13262	9362	8257
60°	12647	8428	7329
65°	12067	7417	6363
70°	11235	6297	5234
75°	10035	4987	4062
80°	8665	3505	2873
85°	6762	1882	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14325 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	2.4
10°-20°	418.8	6.9
20°-30°	618.6	10.1
30°-40°	722.5	11.8
40°-50°	726.3	11.9
50°-60°	638.0	10.4
60°-70°	475.2	7.8
70°-80°	270.4	4.4
80°-90°	78.4	1.3
90°-100°	46.8	0.8
100°-110°	141.8	2.3
110°-120°	241.4	3.9
120°-130°	317.6	5.2
130°-140°	356.9	5.8
140°-150°	350.9	5.7
150°-160°	295.4	4.8
160°-170°	196.7	3.2
170°-180°	68.9	1.1
0°-30°	1185.8	19.4
0°-40°	1908.2	31.2
0°-60°	3272.5	53.5
0°-90°	4096.5	67.0
90°-120°	430.0	7.0
90°-150°	1455.5	23.8
90°-180°	2016.0	33.0
0°-180°	6113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1575	1568	1553	1567	1564	149
15°	1499	1494	1476	1487	1479	423
25°	1361	1353	1335	1337	1333	627
35°	1177	1169	1151	1143	1136	736
45°	965	959	942	925	919	745
55°	732	731	713	698	691	656
65°	499	492	479	468	464	493
75°	264	258	254	248	244	282
85°	70	68	68	65	65	75
90°	1	6	14	16	17	7
95°	34	38	42	45	45	37
105°	129	130	135	135	136	138
115°	243	245	244	244	244	240
125°	356	357	356	354	352	317
135°	461	465	464	462	461	355
145°	560	561	562	562	560	350
155°	641	641	641	644	640	295
165°	698	696	696	700	696	197
175°	726	724	724	727	723	69
180°	728	728	728	728	728	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.5	1573.5	1573.5	1573.5	1573.5
2.5°	1580.2	1574.8	1559.9	1573.5	1572.1
5°	1574.8	1568.0	1553.2	1566.7	1564.0
7.5°	1562.6	1555.9	1541.0	1553.2	1551.8
10°	1546.4	1539.6	1522.0	1534.2	1531.5
12.5°	1524.7	1519.3	1503.1	1511.2	1509.9
15°	1499.0	1493.6	1476.0	1486.9	1478.7
17.5°	1470.6	1463.9	1446.3	1454.4	1451.7
20°	1438.2	1430.0	1412.5	1417.9	1413.8
22.5°	1401.6	1393.5	1375.9	1380.0	1374.6
25°	1361.0	1352.9	1335.3	1336.7	1332.6
27.5°	1319.1	1311.0	1292.0	1293.4	1289.3
30°	1273.1	1266.3	1247.4	1247.4	1237.9
32.5°	1227.1	1217.6	1204.1	1194.6	1190.6
35°	1177.0	1168.9	1151.3	1143.2	1136.5
37.5°	1127.0	1116.2	1098.6	1089.1	1085.0
40°	1074.2	1066.1	1047.2	1036.3	1030.9
42.5°	1021.5	1012.0	993.0	982.2	976.8
45°	964.6	959.2	941.6	925.4	918.6
47.5°	909.2	901.0	884.8	868.6	863.2
50°	852.3	845.6	828.0	813.1	805.0
52.5°	792.8	788.8	769.8	757.6	749.5
55°	731.9	730.6	713.0	698.1	691.3
57.5°	675.1	669.7	656.2	642.6	634.5
60°	612.9	611.5	595.3	583.1	576.3
62.5°	557.4	553.3	537.1	524.9	520.9
65°	499.2	492.5	478.9	468.1	464.1
67.5°	437.0	431.6	420.8	411.3	405.9
70°	381.5	373.4	365.3	355.8	349.1
72.5°	323.3	317.9	308.5	300.3	297.6
75°	263.8	258.4	254.4	247.6	243.5
77.5°	211.1	208.4	202.9	197.5	197.5
80°	159.6	155.6	152.9	151.5	151.5
82.5°	109.6	109.6	109.6	106.9	105.5
85°	70.4	67.6	67.6	64.9	64.9
87.5°	35.2	31.1	29.8	28.4	28.4
90°	0.6	6.3	13.7	16.0	17.2
92.5°	17.2	20.6	24.0	25.7	24.6
95°	33.7	37.7	42.3	44.6	44.6
97.5°	55.5	58.3	61.7	64.6	64.0
100°	77.7	81.2	84.0	85.8	86.9
102.5°	103.5	105.2	109.2	110.9	110.3
105°	128.6	129.8	134.9	134.9	136.1
107.5°	158.4	158.9	161.2	162.9	162.4
110°	185.8	186.9	188.1	190.4	189.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.4	215.0	215.0	217.8	217.8
115°	243.0	244.7	243.5	244.1	243.5
117.5°	272.1	272.7	271.5	271.5	269.8
120°	299.0	302.4	299.6	299.0	297.8
122.5°	327.0	329.3	328.1	326.4	324.7
125°	355.6	357.3	356.2	353.9	351.6
127.5°	381.9	385.3	384.2	380.7	378.5
130°	408.2	412.8	411.0	408.8	404.7
132.5°	434.5	439.1	437.9	435.0	432.2
135°	461.3	464.8	464.2	461.9	460.8
137.5°	485.9	488.8	490.5	487.6	485.9
140°	511.7	514.5	515.1	514.5	510.5
142.5°	535.1	538.0	539.1	538.5	535.7
145°	559.7	560.8	562.5	562.0	559.7
147.5°	580.8	583.1	584.8	584.8	581.4
150°	603.1	604.3	605.4	605.4	602.0
152.5°	621.4	623.1	623.7	624.8	622.0
155°	640.9	640.9	641.4	643.7	639.7
157.5°	657.4	656.9	657.4	659.7	656.3
160°	672.9	671.7	671.7	674.6	672.3
162.5°	686.6	684.9	685.4	688.3	684.3
165°	698.0	696.3	696.3	699.7	695.7
167.5°	707.7	705.5	706.0	709.5	706.0
170°	715.7	713.5	713.5	717.5	713.5
172.5°	722.0	719.7	719.7	723.2	719.2
175°	726.0	723.7	723.7	727.2	723.2
177.5°	728.3	726.0	726.0	729.5	725.5
180°	727.7	727.7	727.7	727.7	727.7

(END OF REPORT)