

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: P1011126

Luminaire Tested: S123DIP-B1000D365UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011126
REPORT IS A COMBINATION OF REPORTS P989171 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB30-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

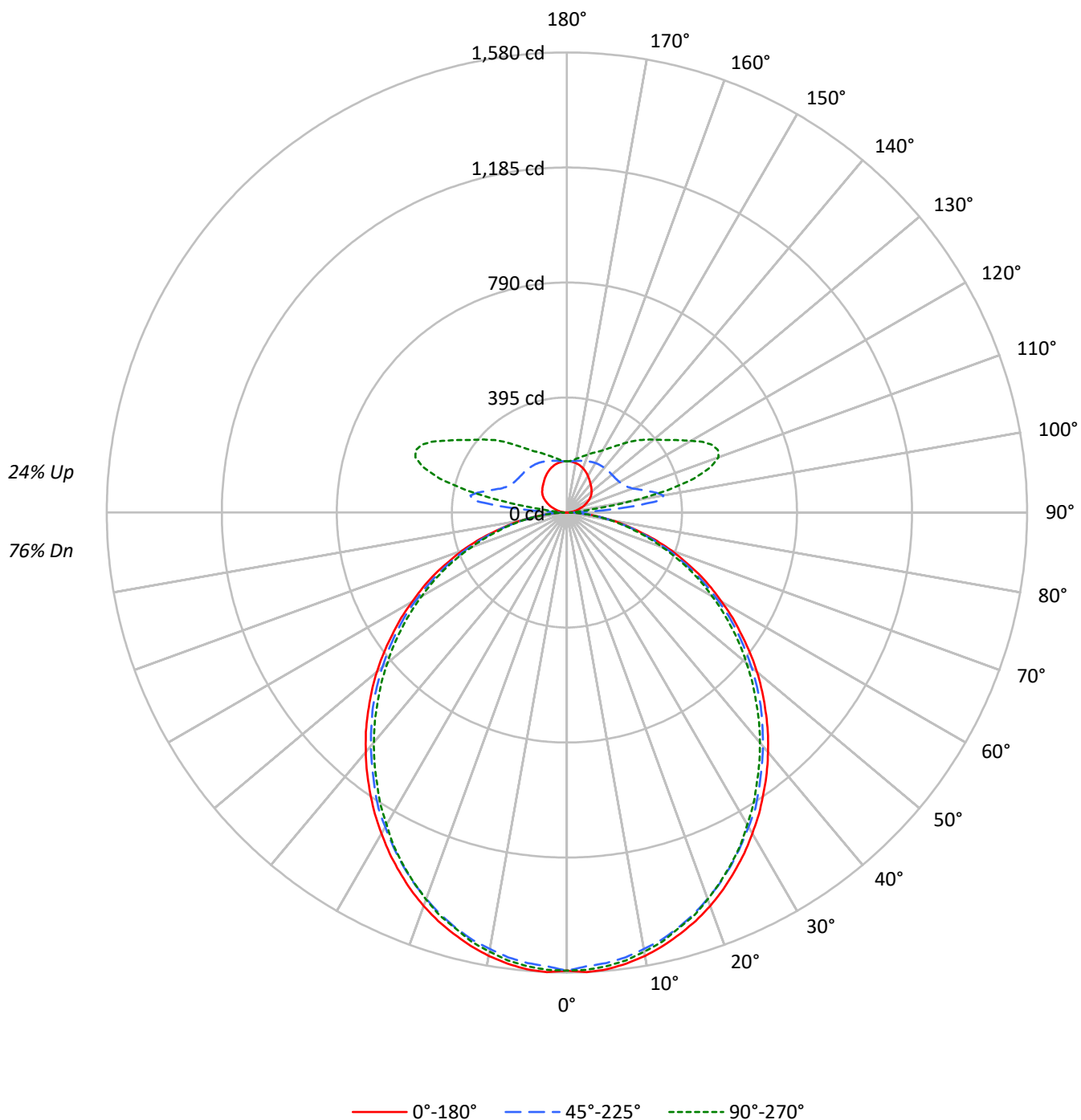
Lumens per Lamp: N/A
Luminaire Lumens: 5420.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80
1	103	99	95	91	98	94	91	87	86	83	80	78	75	73	70	69	67
2	94	86	80	74	89	82	77	72	75	70	66	68	65	61	62	59	56
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48
4	79	67	59	53	75	64	57	51	59	53	48	54	49	44	49	45	41
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	37	32	28
8	58	45	37	31	55	43	35	30	40	33	29	37	31	27	34	29	25
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23
10	50	38	30	25	48	36	29	24	34	28	23	31	26	22	29	24	21

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	2.7
10°-20°	418.8	7.7
20°-30°	618.6	11.4
30°-40°	722.5	13.3
40°-50°	726.3	13.4
50°-60°	638.0	11.8
60°-70°	475.2	8.8
70°-80°	270.4	5.0
80°-90°	77.9	1.4
90°-100°	99.8	1.8
100°-110°	278.9	5.1
110°-120°	272.0	5.0
120°-130°	216.6	4.0
130°-140°	171.0	3.2
140°-150°	127.6	2.4
150°-160°	89.0	1.6
160°-170°	52.3	1.0
170°-180°	17.0	0.3
0°-30°	1185.8	21.9
0°-40°	1908.2	35.2
0°-60°	3272.5	60.4
0°-90°	4095.9	75.6
90°-120°	650.7	12.0
90°-150°	1165.8	21.5
90°-180°	1324.0	24.4
0°-180°	5420.0	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	4	9	10	10	6
95°	12	39	211	62	41	13
105°	41	61	286	500	452	44
115°	73	91	219	479	550	72
125°	101	120	204	370	434	90
135°	119	142	201	304	352	92
145°	135	155	199	250	275	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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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°	0.7	4.2	8.9	10.0	10.3
92.5°	5.3	21.3	66.1	22.6	18.8
95°	12.1	39.3	210.8	61.5	41.2
97.5°	19.2	45.0	324.2	154.6	84.6
100°	26.3	49.6	336.7	323.6	222.9
102.5°	33.8	54.9	313.6	433.2	353.0
105°	41.2	61.0	285.8	499.8	452.2
107.5°	49.1	68.0	261.3	529.2	516.9
110°	57.6	75.4	241.0	530.0	553.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	83.0	227.5	510.0	561.3
115°	72.9	90.8	218.6	479.4	550.0
117.5°	80.3	98.3	212.6	446.7	525.1
120°	88.2	105.8	208.7	415.8	492.4
122.5°	94.9	112.9	206.2	391.5	461.8
125°	101.3	119.6	204.1	369.7	433.7
127.5°	106.3	126.0	203.0	352.0	409.5
130°	110.9	131.7	201.9	335.6	389.6
132.5°	114.5	136.8	201.6	320.3	370.1
135°	118.7	141.7	201.2	304.5	351.6
137.5°	122.6	145.6	200.5	289.6	332.0
140°	126.6	149.1	200.1	275.0	311.4
142.5°	130.8	152.3	199.4	261.7	292.2
145°	135.4	155.2	198.7	249.8	274.8
147.5°	140.1	158.2	197.7	240.5	259.9
150°	144.7	160.7	196.2	232.3	247.1
152.5°	149.3	163.4	194.5	225.2	236.4
155°	153.9	166.0	192.3	218.6	227.9
157.5°	157.5	168.4	190.6	212.2	219.7
160°	161.8	170.3	188.4	206.4	211.9
162.5°	165.0	171.7	186.3	200.9	204.8
165°	168.2	173.0	184.2	195.4	198.7
167.5°	170.6	174.0	182.0	190.6	192.7
170°	172.8	174.6	179.9	186.2	187.4
172.5°	174.2	175.1	178.1	182.6	182.4
175°	175.3	175.4	176.7	179.2	178.8
177.5°	176.0	175.6	175.6	177.0	176.3
180°	175.6	175.6	175.6	175.6	175.6

(END OF REPORT)