

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: P1010434

Luminaire Tested: S123DIP-B1000D365UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010434
REPORT IS A COMBINATION OF REPORTS P989158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

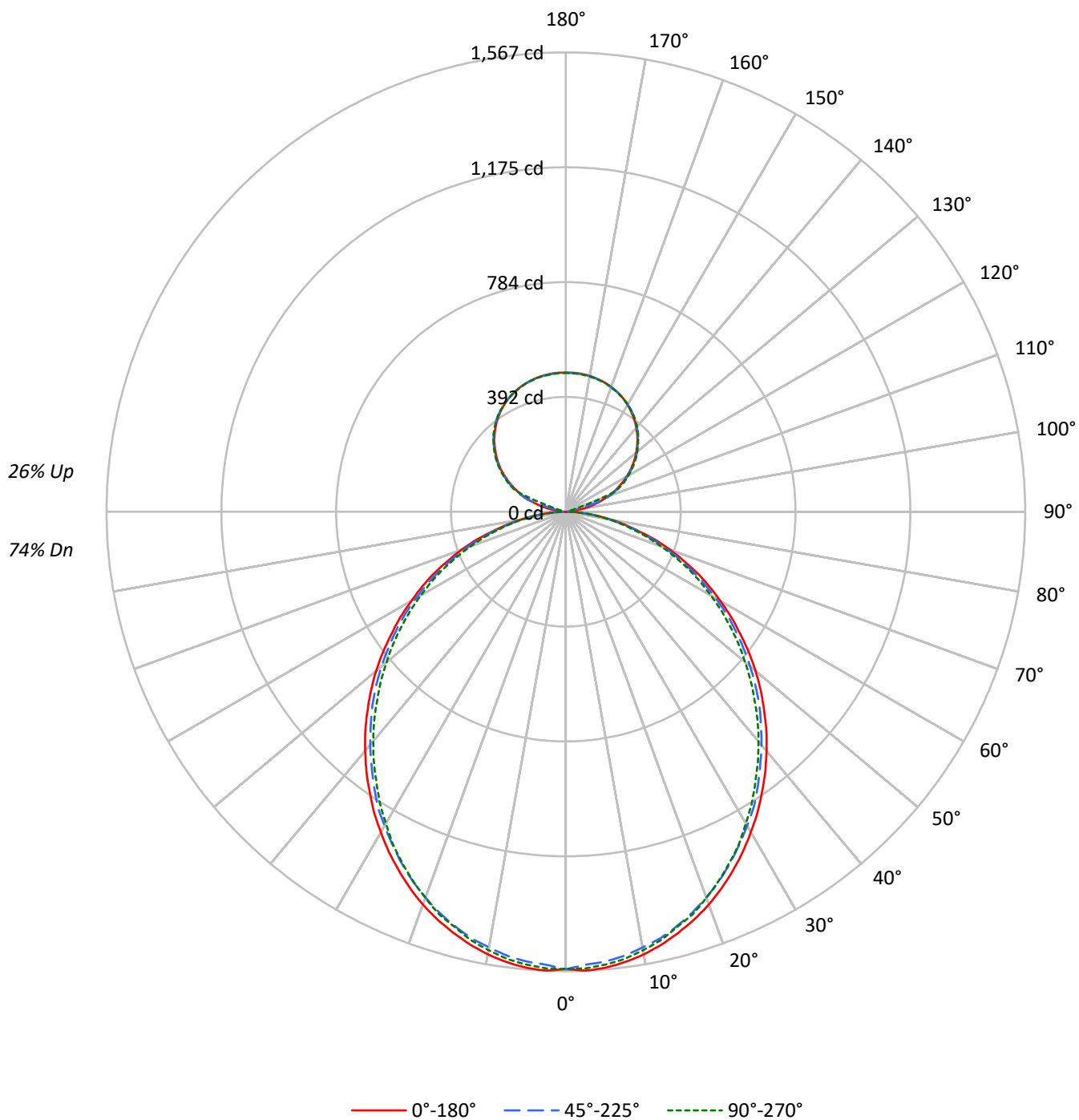
Lumens per Lamp: N/A
Luminaire Lumens: 5507.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V): 120
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	107	107	107	107	97	97	97	87	87	87	78	78	78
1	103	98	94	91	98	94	90	87	85	82	79	76	74	72	69	67	66
2	94	86	80	74	89	82	76	71	74	70	66	67	64	60	61	58	55
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	54	50	47
4	78	67	59	52	74	64	56	51	58	52	47	53	48	44	48	44	41
5	72	60	51	45	68	57	49	44	52	46	41	48	42	38	43	39	35
6	66	54	45	39	63	52	44	38	47	41	36	43	38	33	39	35	31
7	62	49	40	35	58	47	39	34	43	36	32	39	34	30	36	31	28
8	57	44	36	31	54	43	35	30	39	33	28	36	30	27	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16792	16792	16792
5°	16833	16212	16188
10°	16684	15663	15503
15°	16451	15092	14756
20°	16186	14460	14016
25°	15842	13791	13225
30°	15465	13098	12392
35°	15071	12392	11566
40°	14657	11650	10753
45°	14204	10928	9903
50°	13742	10122	9050
55°	13149	9282	8186
60°	12537	8356	7267
65°	11966	7354	6308
70°	11140	6244	5189
75°	9951	4944	4027
80°	8594	3475	2849
85°	6705	1869	1427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	2.7
10°-20°	415.3	7.5
20°-30°	613.3	11.1
30°-40°	716.3	13.0
40°-50°	720.1	13.1
50°-60°	632.6	11.5
60°-70°	471.1	8.6
70°-80°	268.1	4.9
80°-90°	77.2	1.4
90°-100°	16.7	0.3
100°-110°	80.9	1.5
110°-120°	198.2	3.6
120°-130°	251.6	4.6
130°-140°	268.8	4.9
140°-150°	251.3	4.6
150°-160°	202.7	3.7
160°-170°	130.8	2.4
170°-180°	45.1	0.8
0°-30°	1175.6	21.3
0°-40°	1891.9	34.4
0°-60°	3244.6	58.9
0°-90°	4061.0	73.7
90°-120°	295.8	5.4
90°-150°	1067.4	19.4
90°-180°	1446.0	26.3
0°-180°	5507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1561	1555	1540	1553	1551	148
15°	1486	1481	1463	1474	1466	419
25°	1349	1341	1324	1325	1321	622
35°	1167	1159	1142	1134	1127	730
45°	956	951	934	918	911	738
55°	726	724	707	692	685	650
65°	495	488	475	464	460	488
75°	262	256	252	246	241	279
85°	70	67	67	64	64	75
90°	0	4	8	10	11	6
95°	22	7	11	13	13	26
105°	105	109	77	15	16	111
115°	197	199	202	206	207	195
125°	278	280	282	283	283	248
135°	346	348	349	350	349	266
145°	399	401	402	403	403	250
155°	439	439	439	441	439	202
165°	463	462	462	465	462	131
175°	474	473	473	475	473	45
180°	474	474	474	474	474	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1566.7	1561.3	1546.6	1560.0	1558.7
5°	1561.3	1554.6	1539.9	1553.3	1550.6
7.5°	1549.3	1542.6	1527.8	1539.9	1538.5
10°	1533.2	1526.5	1509.0	1521.1	1518.4
12.5°	1511.7	1506.3	1490.3	1498.3	1497.0
15°	1486.2	1480.9	1463.4	1474.2	1466.1
17.5°	1458.1	1451.4	1433.9	1442.0	1439.3
20°	1425.9	1417.8	1400.4	1405.7	1401.7
22.5°	1389.7	1381.6	1364.2	1368.2	1362.8
25°	1349.4	1341.4	1323.9	1325.3	1321.2
27.5°	1307.8	1299.8	1281.0	1282.3	1278.3
30°	1262.2	1255.5	1236.7	1236.7	1227.3
32.5°	1216.6	1207.2	1193.8	1184.4	1180.4
35°	1167.0	1158.9	1141.5	1133.5	1126.7
37.5°	1117.4	1106.6	1089.2	1079.8	1075.8
40°	1065.0	1057.0	1038.2	1027.5	1022.1
42.5°	1012.7	1003.3	984.6	973.8	968.5
45°	956.4	951.0	933.6	917.5	910.8
47.5°	901.4	893.3	877.3	861.2	855.8
50°	845.1	838.4	820.9	806.2	798.1
52.5°	786.0	782.0	763.2	751.2	743.1
55°	725.7	724.3	706.9	692.1	685.4
57.5°	669.3	664.0	650.6	637.1	629.1
60°	607.6	606.3	590.2	578.1	571.4
62.5°	552.6	548.6	532.5	520.4	516.4
65°	495.0	488.3	474.8	464.1	460.1
67.5°	433.3	427.9	417.2	407.8	402.4
70°	378.3	370.2	362.2	352.8	346.1
72.5°	320.6	315.2	305.8	297.8	295.1
75°	261.6	256.2	252.2	245.5	241.4
77.5°	209.3	206.6	201.2	195.8	195.8
80°	158.3	154.3	151.6	150.2	150.2
82.5°	108.7	108.7	108.7	106.0	104.6
85°	69.8	67.1	67.1	64.4	64.4
87.5°	34.9	30.9	29.5	28.2	28.2
90°	0.4	3.9	8.5	9.9	10.6
92.5°	8.1	6.0	9.2	11.6	12.0
95°	21.5	7.0	10.9	13.4	13.4
97.5°	39.1	29.2	11.3	14.1	14.4
100°	59.6	66.6	11.6	14.4	14.8
102.5°	82.8	87.4	26.1	14.4	15.2
105°	105.0	108.9	77.2	14.8	15.5
107.5°	128.6	131.8	137.1	82.8	36.7
110°	152.2	155.1	158.9	147.3	96.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	177.3	181.1	184.3	183.6
115°	197.0	199.1	202.3	205.8	207.2
117.5°	218.8	221.3	223.1	225.9	226.2
120°	238.9	242.1	243.2	246.0	246.0
122.5°	259.4	261.8	263.2	265.0	265.4
125°	277.7	280.5	281.9	282.6	283.3
127.5°	296.0	298.8	300.6	301.7	301.0
130°	312.9	315.8	317.2	318.6	317.9
132.5°	329.1	332.0	333.0	334.4	333.4
135°	345.7	347.8	349.2	350.3	349.2
137.5°	359.8	362.6	363.3	365.1	364.4
140°	373.9	376.0	377.1	378.5	377.8
142.5°	386.9	389.1	390.1	391.2	390.1
145°	398.9	401.4	402.1	402.8	402.8
147.5°	410.6	412.3	413.0	413.7	412.0
150°	421.1	422.2	422.9	423.6	422.5
152.5°	430.6	431.0	431.3	432.8	431.0
155°	439.4	438.7	439.1	440.9	438.7
157.5°	446.5	446.5	446.1	448.3	445.4
160°	452.8	452.5	452.1	454.2	451.8
162.5°	458.8	457.8	457.4	459.9	457.8
165°	463.4	462.4	462.0	464.8	462.4
167.5°	467.3	465.9	465.9	468.7	465.9
170°	470.5	469.0	469.0	471.9	469.0
172.5°	472.6	470.8	471.2	474.0	470.8
175°	474.3	472.6	472.9	475.4	472.6
177.5°	475.0	473.3	473.6	476.5	472.9
180°	474.3	474.3	474.3	474.3	474.3

(END OF REPORT)