

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: P1011382

Luminaire Tested: S123DIP-B1165D585UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011382
REPORT IS A COMBINATION OF REPORTS P989526 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D585UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

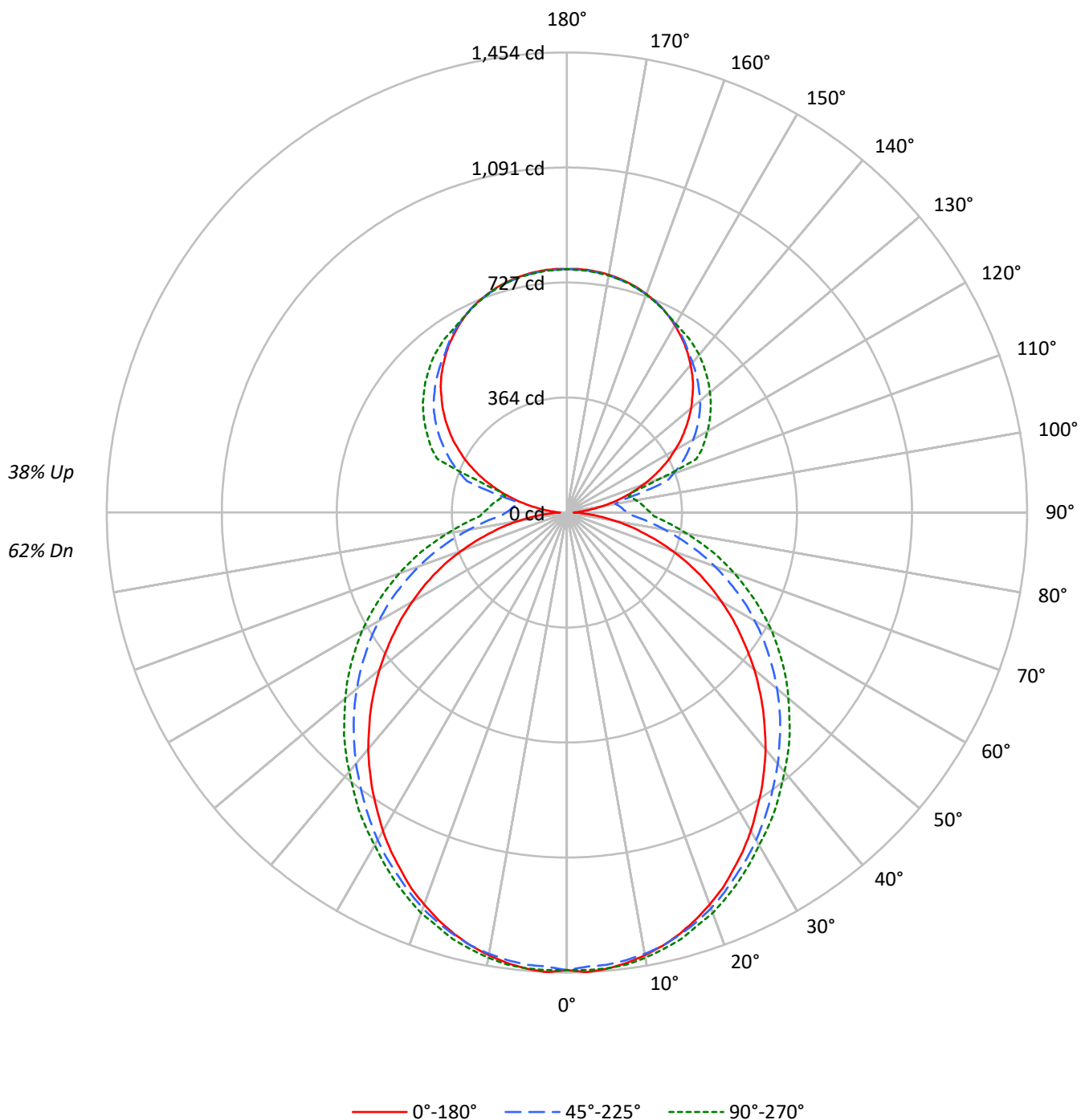
Lumens per Lamp: N/A
Luminaire Lumens: 7207.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	99	94	90	86	93	88	84	81	77	74	71	67	64	62	57	56	54
2	90	82	75	69	84	76	70	65	67	62	58	58	54	51	50	47	44
3	82	71	63	57	76	67	60	54	58	53	48	51	46	43	44	40	37
4	74	63	54	48	69	59	51	45	52	46	41	45	40	36	39	35	32
5	68	56	47	41	64	53	45	39	46	40	35	40	35	31	35	31	28
6	63	50	42	35	59	47	39	34	42	35	30	36	31	27	31	27	24
7	58	45	37	31	54	43	35	30	38	31	27	33	28	24	29	25	21
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	26	22	19
9	50	37	30	24	47	35	28	23	31	25	21	28	23	19	24	20	17
10	47	34	27	22	44	33	26	21	29	23	19	26	21	17	23	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.9
10°-20°	391.1	5.4
20°-30°	584.8	8.1
30°-40°	698.2	9.7
40°-50°	730.6	10.1
50°-60°	685.6	9.5
60°-70°	572.6	7.9
70°-80°	409.5	5.7
80°-90°	245.2	3.4
90°-100°	180.2	2.5
100°-110°	243.7	3.4
110°-120°	396.6	5.5
120°-130°	450.9	6.3
130°-140°	455.2	6.3
140°-150°	411.6	5.7
150°-160°	328.8	4.6
160°-170°	212.2	2.9
170°-180°	73.1	1.0
0°-30°	1113.0	15.4
0°-40°	1811.3	25.1
0°-60°	3227.4	44.8
0°-90°	4454.6	61.8
90°-120°	820.5	11.4
90°-150°	2138.3	29.7
90°-180°	2752.0	38.2
0°-180°	7207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	21	104	192	248	264	17
95°	52	90	174	226	242	55
105°	183	227	243	186	202	193
115°	327	350	412	455	470	324
125°	455	460	508	542	554	407
135°	564	566	585	616	622	434
145°	649	651	652	666	672	406
155°	713	712	712	715	712	328
165°	752	750	749	754	750	212
175°	769	766	767	771	766	73
180°	769	769	769	769	769	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	21.1	104.0	191.7	247.6	264.4
92.5°	32.0	96.3	180.3	236.3	251.0
95°	52.2	90.2	173.7	226.5	242.2
97.5°	79.2	119.9	164.8	216.7	232.9
100°	110.8	172.6	155.9	206.1	222.5
102.5°	146.9	198.5	169.9	195.1	212.1
105°	182.9	227.0	243.3	186.3	201.6
107.5°	219.6	257.9	331.0	285.5	224.8
110°	256.4	289.3	358.6	380.7	311.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.0	319.0	385.2	429.6	442.7
115°	327.4	349.7	411.6	455.1	470.0
117.5°	362.9	379.5	435.8	478.2	491.4
120°	393.8	406.9	460.6	501.4	512.4
122.5°	427.0	434.2	485.3	522.7	534.4
125°	455.1	459.7	507.7	541.9	554.1
127.5°	484.8	487.9	530.1	563.3	573.2
130°	512.3	515.3	549.1	581.3	589.6
132.5°	537.1	541.6	567.0	597.5	606.9
135°	563.9	565.8	585.3	615.5	621.5
137.5°	586.8	589.8	601.9	630.0	636.7
140°	608.1	611.5	617.9	643.8	650.5
142.5°	629.2	631.0	632.8	655.0	661.2
145°	648.6	651.0	652.2	665.9	672.2
147.5°	665.9	668.8	669.9	675.7	679.2
150°	683.1	684.8	685.9	687.1	688.5
152.5°	698.5	699.1	699.6	701.9	699.1
155°	712.8	711.6	712.2	715.1	711.6
157.5°	724.2	724.2	723.6	727.1	722.5
160°	734.5	733.9	733.4	736.8	732.8
162.5°	744.2	742.5	741.9	745.9	742.5
165°	751.6	749.9	749.4	753.9	749.9
167.5°	757.9	755.6	755.6	760.2	755.6
170°	763.1	760.8	760.8	765.4	760.8
172.5°	766.5	763.6	764.2	768.8	763.6
175°	769.4	766.5	767.1	771.1	766.5
177.5°	770.5	767.6	768.2	772.8	767.1
180°	769.4	769.4	769.4	769.4	769.4

(END OF REPORT)