

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: P1011385

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011385
REPORT IS A COMBINATION OF REPORTS P989529 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-F
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

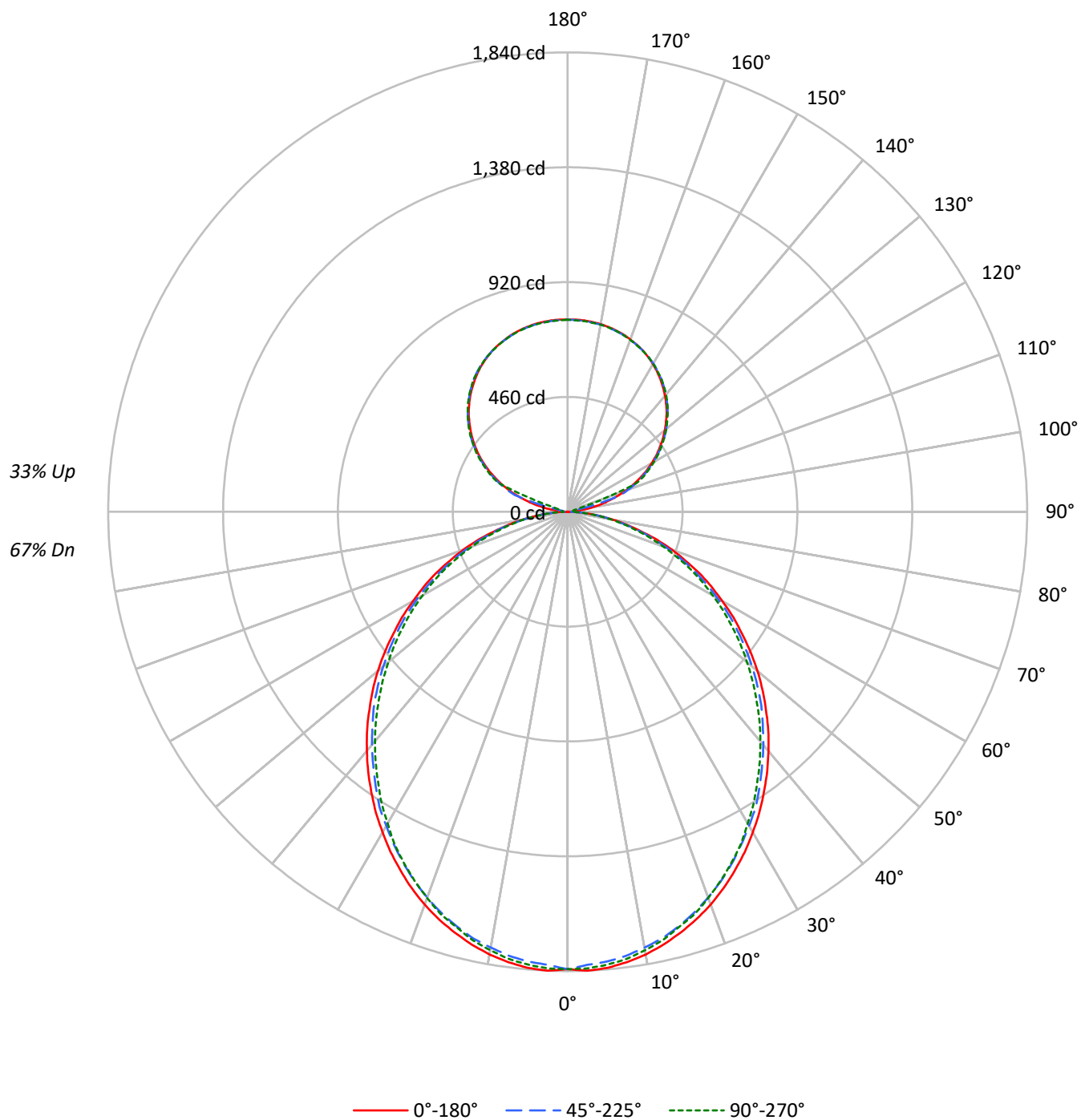
Lumens per Lamp: N/A
Luminaire Lumens: 7115.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	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	67		
1	102	97	93	89	96	92	88	85	81	79	76	72	70	68	63	62	61	56		
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	56	53	51	47		
3	84	75	67	61	79	70	64	58	63	57	53	56	52	48	49	46	43	40		
4	77	66	58	52	72	63	55	49	56	50	45	50	45	41	44	40	37	34		
5	71	59	50	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30		
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26		
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23		
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21		
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19		
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19719	19719	19719
5°	19769	19039	19011
10°	19593	18395	18206
15°	19321	17724	17330
20°	19008	16981	16460
25°	18604	16196	15531
30°	18162	15383	14554
35°	17699	14553	13583
40°	17214	13682	12629
45°	16681	12833	11630
50°	16138	11887	10629
55°	15441	10901	9615
60°	14725	9813	8534
65°	14052	8636	7407
70°	13081	7331	6093
75°	11686	5806	4730
80°	10092	4080	3345
85°	7867	2194	1676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16681 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	2.4
10°-20°	487.7	6.9
20°-30°	720.3	10.1
30°-40°	841.2	11.8
40°-50°	845.7	11.9
50°-60°	742.9	10.4
60°-70°	553.3	7.8
70°-80°	314.9	4.4
80°-90°	91.1	1.3
90°-100°	27.1	0.4
100°-110°	131.2	1.8
110°-120°	321.4	4.5
120°-130°	408.1	5.7
130°-140°	435.9	6.1
140°-150°	407.6	5.7
150°-160°	328.8	4.6
160°-170°	212.2	3.0
170°-180°	73.1	1.0
0°-30°	1380.7	19.4
0°-40°	2221.8	31.2
0°-60°	3810.4	53.6
0°-90°	4769.5	67.0
90°-120°	479.7	6.7
90°-150°	1731.3	24.3
90°-180°	2345.0	33.0
0°-180°	7115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1834	1826	1808	1824	1821	174
15°	1745	1739	1719	1731	1722	492
25°	1585	1575	1555	1556	1552	730
35°	1370	1361	1341	1331	1323	857
45°	1123	1117	1096	1078	1070	867
55°	852	851	830	813	805	763
65°	581	573	558	545	540	573
75°	307	301	296	288	284	328
85°	82	79	79	76	76	88
90°	1	6	14	16	17	8
95°	35	11	18	22	22	42
105°	170	177	125	24	25	181
115°	320	323	328	334	336	316
125°	450	455	457	458	460	402
135°	561	564	566	568	566	432
145°	647	651	652	653	653	405
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°	1832.0	1832.0	1832.0	1832.0	1832.0
2.5°	1839.9	1833.6	1816.3	1832.0	1830.5
5°	1833.6	1825.7	1808.4	1824.2	1821.0
7.5°	1819.4	1811.6	1794.2	1808.4	1806.8
10°	1800.5	1792.7	1772.2	1786.4	1783.2
12.5°	1775.3	1769.0	1750.1	1759.6	1758.0
15°	1745.4	1739.1	1718.6	1731.2	1721.8
17.5°	1712.3	1704.4	1684.0	1693.4	1690.3
20°	1674.5	1665.1	1644.6	1650.9	1646.2
22.5°	1632.0	1622.5	1602.1	1606.8	1600.5
25°	1584.7	1575.3	1554.8	1556.4	1551.6
27.5°	1535.9	1526.4	1504.4	1506.0	1501.2
30°	1482.3	1474.5	1452.4	1452.4	1441.4
32.5°	1428.8	1417.7	1402.0	1391.0	1386.2
35°	1370.5	1361.0	1340.6	1331.1	1323.2
37.5°	1312.2	1299.6	1279.1	1268.1	1263.4
40°	1250.8	1241.3	1219.3	1206.7	1200.4
42.5°	1189.3	1178.3	1156.3	1143.6	1137.3
45°	1123.2	1116.9	1096.4	1077.5	1069.6
47.5°	1058.6	1049.1	1030.2	1011.3	1005.0
50°	992.4	984.5	964.1	946.7	937.3
52.5°	923.1	918.4	896.3	882.2	872.7
55°	852.2	850.6	830.2	812.8	805.0
57.5°	786.1	779.8	764.0	748.3	738.8
60°	713.6	712.0	693.1	678.9	671.1
62.5°	649.0	644.3	625.4	611.2	606.5
65°	581.3	573.4	557.6	545.0	540.3
67.5°	508.8	502.5	489.9	478.9	472.6
70°	444.2	434.8	425.3	414.3	406.4
72.5°	376.5	370.2	359.2	349.7	346.6
75°	307.2	300.9	296.2	288.3	283.5
77.5°	245.7	242.6	236.3	230.0	230.0
80°	185.9	181.2	178.0	176.4	176.4
82.5°	127.6	127.6	127.6	124.4	122.9
85°	81.9	78.8	78.8	75.6	75.6
87.5°	41.0	36.2	34.7	33.1	33.1
90°	0.6	6.3	13.7	16.0	17.1
92.5°	13.1	9.7	14.9	18.9	19.4
95°	34.9	11.4	17.7	21.7	21.7
97.5°	63.4	47.4	18.3	22.9	23.4
100°	96.6	108.0	18.9	23.4	24.0
102.5°	134.3	141.8	42.3	23.4	24.6
105°	170.3	176.6	125.2	24.0	25.2
107.5°	208.6	213.8	222.3	134.3	59.4
110°	246.9	251.5	257.8	238.9	157.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.5	287.5	293.8	298.9	297.8
115°	319.5	322.9	328.1	333.8	336.1
117.5°	355.0	359.0	361.8	366.4	367.0
120°	387.5	392.7	394.4	399.0	399.0
122.5°	420.7	424.7	427.0	429.8	430.4
125°	450.4	455.0	457.3	458.4	459.6
127.5°	480.1	484.7	487.6	489.3	488.1
130°	507.6	512.1	514.4	516.7	515.6
132.5°	533.9	538.4	540.2	542.4	540.7
135°	560.7	564.2	566.4	568.2	566.4
137.5°	583.6	588.2	589.3	592.2	591.0
140°	606.5	609.9	611.6	613.9	612.7
142.5°	627.6	631.0	632.8	634.5	632.8
145°	647.0	651.0	652.2	653.3	653.3
147.5°	665.9	668.8	669.9	671.0	668.2
150°	683.1	684.8	685.9	687.1	685.3
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)