

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: P1011394

Luminaire Tested: S123DIP-B1165D585UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011394
REPORT IS A COMBINATION OF REPORTS P989538 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D585UB35-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

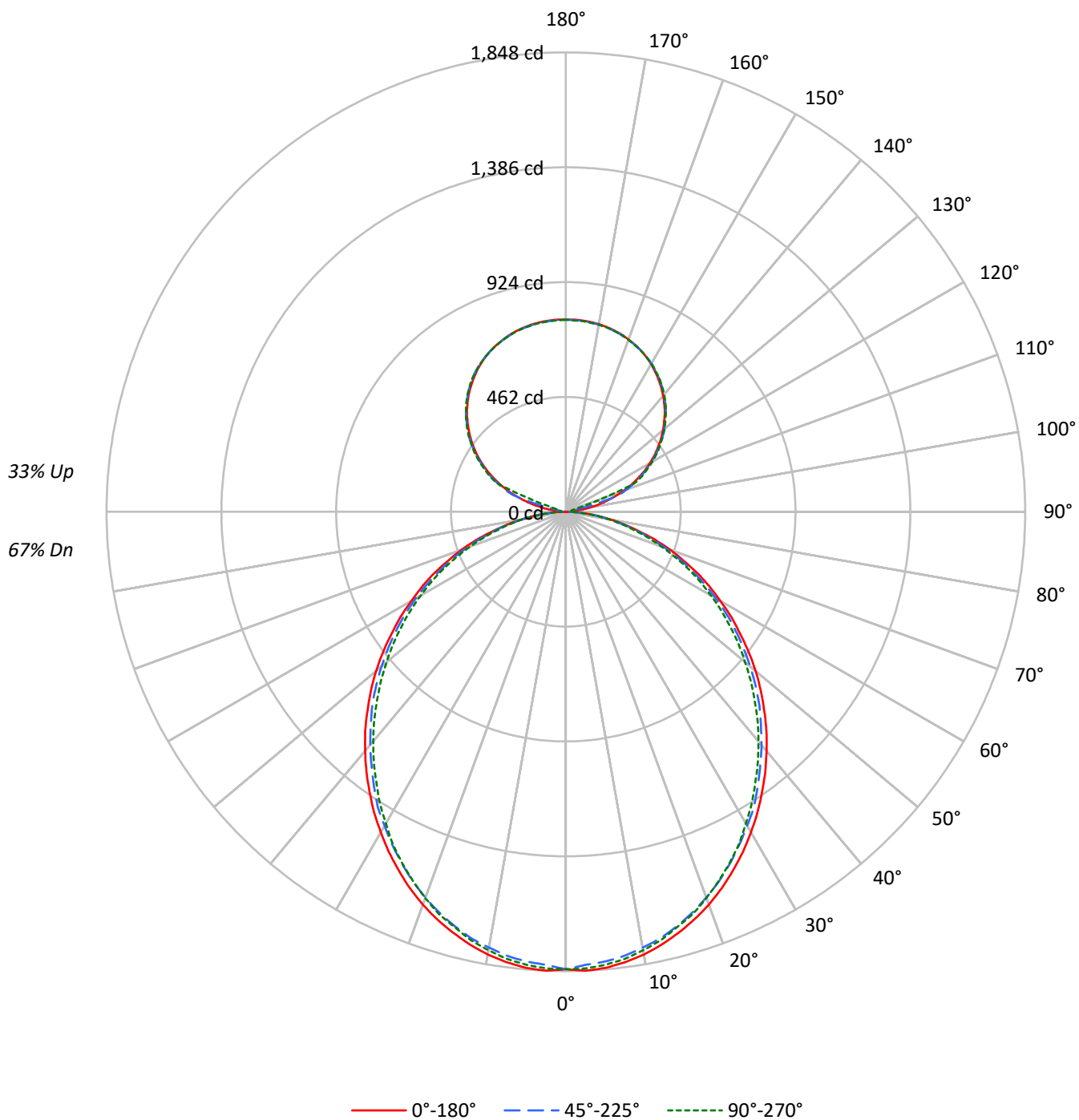
Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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	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	61
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	56	53	51
3	84	75	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	33
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°	19807	19807	19807
5°	19856	19123	19094
10°	19680	18476	18287
15°	19406	17803	17406
20°	19092	17055	16532
25°	18686	16267	15600
30°	18242	15451	14618
35°	17776	14618	13643
40°	17290	13742	12683
45°	16754	12889	11681
50°	16209	11939	10675
55°	15510	10948	9656
60°	14789	9857	8571
65°	14113	8675	7440
70°	13140	7364	6120
75°	11735	5832	4751
80°	10136	4098	3361
85°	7905	2203	1682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.4
10°-20°	489.8	6.9
20°-30°	723.4	10.1
30°-40°	844.9	11.8
40°-50°	849.4	11.9
50°-60°	746.1	10.4
60°-70°	555.7	7.8
70°-80°	316.2	4.4
80°-90°	91.5	1.3
90°-100°	27.2	0.4
100°-110°	131.7	1.8
110°-120°	322.8	4.5
120°-130°	409.8	5.7
130°-140°	437.8	6.1
140°-150°	409.4	5.7
150°-160°	330.2	4.6
160°-170°	213.1	3.0
170°-180°	73.4	1.0
0°-30°	1386.7	19.4
0°-40°	2231.6	31.2
0°-60°	3827.2	53.6
0°-90°	4790.5	67.0
90°-120°	481.8	6.7
90°-150°	1738.7	24.3
90°-180°	2355.0	33.0
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1842	1834	1816	1832	1829	175
15°	1753	1747	1726	1739	1729	494
25°	1592	1582	1562	1563	1558	733
35°	1376	1367	1346	1337	1329	861
45°	1128	1122	1101	1082	1074	871
55°	856	854	834	816	808	767
65°	584	576	560	547	543	576
75°	308	302	298	290	285	330
85°	82	79	79	76	76	88
90°	1	6	14	16	17	8
95°	35	12	18	22	22	42
105°	171	177	126	24	25	181
115°	321	324	330	335	338	317
125°	452	457	459	460	462	404
135°	563	567	569	571	569	434
145°	650	654	655	656	656	407
155°	716	715	715	718	715	330
165°	755	753	752	757	753	213
175°	773	770	770	774	770	74
180°	773	773	773	773	773	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1848.0	1841.7	1824.3	1840.1	1838.5
5°	1841.7	1833.8	1816.4	1832.2	1829.0
7.5°	1827.5	1819.5	1802.1	1816.4	1814.8
10°	1808.5	1800.6	1780.0	1794.2	1791.1
12.5°	1783.2	1776.8	1757.8	1767.3	1765.7
15°	1753.1	1746.8	1726.2	1738.9	1729.4
17.5°	1719.9	1712.0	1691.4	1700.9	1697.7
20°	1681.9	1672.4	1651.8	1658.2	1653.4
22.5°	1639.2	1629.7	1609.1	1613.9	1607.5
25°	1591.7	1582.2	1561.6	1563.2	1558.5
27.5°	1542.7	1533.2	1511.0	1512.6	1507.8
30°	1488.9	1481.0	1458.8	1458.8	1447.7
32.5°	1435.1	1424.0	1408.2	1397.1	1392.3
35°	1376.5	1367.0	1346.5	1337.0	1329.1
37.5°	1318.0	1305.3	1284.8	1273.7	1268.9
40°	1256.3	1246.8	1224.6	1212.0	1205.6
42.5°	1194.6	1183.5	1161.3	1148.7	1142.4
45°	1128.1	1121.8	1101.2	1082.2	1074.3
47.5°	1063.2	1053.8	1034.8	1015.8	1009.5
50°	996.8	988.9	968.3	950.9	941.4
52.5°	927.2	922.4	900.3	886.0	876.5
55°	856.0	854.4	833.8	816.4	808.5
57.5°	789.5	783.2	767.4	751.6	742.1
60°	716.7	715.2	696.2	681.9	674.0
62.5°	651.9	647.1	628.1	613.9	609.2
65°	583.8	575.9	560.1	547.4	542.7
67.5°	511.1	504.7	492.1	481.0	474.7
70°	446.2	436.7	427.2	416.1	408.2
72.5°	378.1	371.8	360.7	351.3	348.1
75°	308.5	302.2	297.5	289.5	284.8
77.5°	246.8	243.7	237.3	231.0	231.0
80°	186.7	182.0	178.8	177.2	177.2
82.5°	128.2	128.2	128.2	125.0	123.4
85°	82.3	79.1	79.1	75.9	75.9
87.5°	41.1	36.4	34.8	33.2	33.2
90°	0.6	6.3	13.8	16.1	17.2
92.5°	13.2	9.8	14.9	18.9	19.5
95°	35.0	11.5	17.8	21.8	21.8
97.5°	63.7	47.6	18.4	23.0	23.5
100°	97.0	108.5	18.9	23.5	24.1
102.5°	134.9	142.4	42.5	23.5	24.7
105°	171.1	177.4	125.7	24.1	25.3
107.5°	209.5	214.7	223.3	134.9	59.7
110°	248.0	252.6	258.9	239.9	157.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.7	288.7	295.0	300.2	299.1
115°	320.9	324.3	329.5	335.2	337.5
117.5°	356.5	360.5	363.4	368.0	368.5
120°	389.2	394.4	396.1	400.7	400.7
122.5°	422.5	426.5	428.8	431.7	432.2
125°	452.3	456.9	459.2	460.4	461.5
127.5°	482.2	486.8	489.6	491.4	490.2
130°	509.7	514.3	516.6	518.9	517.8
132.5°	536.1	540.7	542.5	544.8	543.0
135°	563.1	566.6	568.9	570.6	568.9
137.5°	586.1	590.7	591.8	594.7	593.5
140°	609.0	612.5	614.2	616.5	615.4
142.5°	630.3	633.7	635.4	637.2	635.4
145°	649.8	653.8	655.0	656.1	656.1
147.5°	668.7	671.6	672.8	673.9	671.0
150°	686.0	687.7	688.8	690.0	688.3
152.5°	701.5	702.0	702.6	704.9	702.0
155°	715.8	714.7	715.2	718.1	714.7
157.5°	727.3	727.3	726.7	730.2	725.6
160°	737.6	737.0	736.5	739.9	735.9
162.5°	747.4	745.7	745.1	749.1	745.7
165°	754.8	753.1	752.5	757.1	753.1
167.5°	761.2	758.9	758.9	763.5	758.9
170°	766.3	764.0	764.0	768.6	764.0
172.5°	769.8	766.9	767.5	772.1	766.9
175°	772.6	769.8	770.3	774.4	769.8
177.5°	773.8	770.9	771.5	776.1	770.3
180°	772.6	772.6	772.6	772.6	772.6

(END OF REPORT)