

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: P1011354

Luminaire Tested: S123DIP-B1165D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011354
REPORT IS A COMBINATION OF REPORTS P989480 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D365UB35-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

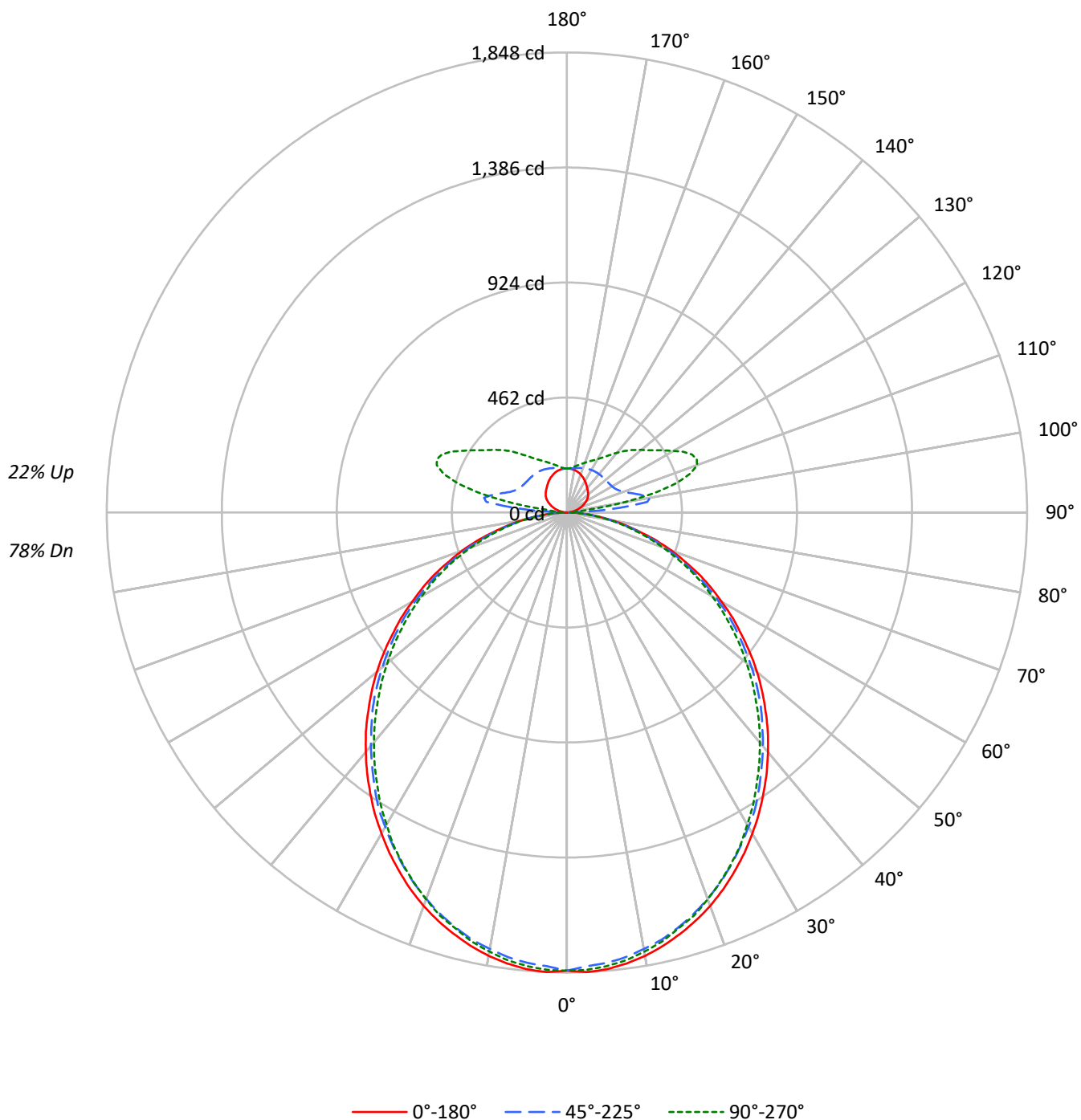
Lumens per Lamp: N/A
Luminaire Lumens: 6120.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	71	69
2	95	87	80	75	90	83	77	72	76	71	67	70	66	63	64	61	58
3	86	76	69	62	82	73	66	61	67	61	57	62	57	53	56	53	50
4	79	68	59	53	75	65	57	51	60	53	48	55	50	46	50	46	43
5	73	61	52	46	69	58	50	44	54	47	42	49	44	40	45	41	37
6	67	54	46	40	64	52	44	39	48	42	37	45	39	35	41	37	33
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29
8	58	45	37	31	55	43	36	30	40	34	29	37	32	28	35	30	26
9	54	41	33	28	52	40	32	27	37	31	26	34	29	25	32	27	24
10	51	38	30	25	48	37	30	25	34	28	24	32	26	23	30	25	22

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	2.8
10°-20°	489.8	8.0
20°-30°	723.4	11.8
30°-40°	844.9	13.8
40°-50°	849.4	13.9
50°-60°	746.1	12.2
60°-70°	555.7	9.1
70°-80°	316.2	5.2
80°-90°	90.9	1.5
90°-100°	100.2	1.6
100°-110°	280.2	4.6
110°-120°	273.2	4.5
120°-130°	217.6	3.6
130°-140°	171.7	2.8
140°-150°	128.1	2.1
150°-160°	89.4	1.5
160°-170°	52.5	0.9
170°-180°	17.1	0.3
0°-30°	1386.7	22.7
0°-40°	2231.6	36.5
0°-60°	3827.2	62.5
0°-90°	4790.0	78.3
90°-120°	653.7	10.7
90°-150°	1171.1	19.1
90°-180°	1330.0	21.7
0°-180°	6120.1	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	4	9	10	10	7
95°	12	39	212	62	41	13
105°	41	61	287	502	454	44
115°	73	91	220	482	552	72
125°	102	120	205	371	436	90
135°	119	142	202	306	353	92
145°	136	156	200	251	276	85
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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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°	0.7	4.2	8.9	10.0	10.4
92.5°	5.4	21.4	66.4	22.6	18.9
95°	12.1	39.4	211.8	61.8	41.4
97.5°	19.3	45.2	325.7	155.4	85.0
100°	26.4	49.8	338.2	325.0	223.9
102.5°	33.9	55.2	315.0	435.2	354.6
105°	41.4	61.2	287.1	502.2	454.3
107.5°	49.3	68.4	262.5	531.6	519.3
110°	57.9	75.7	242.1	532.5	556.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.7	83.4	228.6	512.2	563.9
115°	73.2	91.2	219.6	481.6	552.5
117.5°	80.7	98.8	213.6	448.7	527.5
120°	88.6	106.2	209.6	417.6	494.6
122.5°	95.4	113.4	207.1	393.2	463.9
125°	101.8	120.2	205.0	371.4	435.7
127.5°	106.8	126.6	203.9	353.6	411.4
130°	111.4	132.3	202.8	337.2	391.4
132.5°	115.0	137.4	202.5	321.8	371.8
135°	119.3	142.3	202.1	305.8	353.2
137.5°	123.2	146.2	201.4	290.9	333.5
140°	127.1	149.8	201.1	276.2	312.8
142.5°	131.4	153.0	200.3	262.8	293.6
145°	136.1	155.9	199.6	250.9	276.1
147.5°	140.7	158.9	198.6	241.6	261.1
150°	145.3	161.4	197.1	233.4	248.2
152.5°	150.0	164.1	195.3	226.2	237.5
155°	154.6	166.8	193.2	219.6	228.9
157.5°	158.2	169.1	191.4	213.2	220.7
160°	162.5	171.0	189.3	207.4	212.8
162.5°	165.7	172.5	187.1	201.8	205.7
165°	168.9	173.8	185.0	196.2	199.6
167.5°	171.4	174.8	182.8	191.4	193.6
170°	173.6	175.4	180.7	187.2	188.2
172.5°	175.0	175.9	178.9	183.4	183.2
175°	176.1	176.2	177.5	180.0	179.6
177.5°	176.8	176.4	176.4	177.8	177.1
180°	176.4	176.4	176.4	176.4	176.4

(END OF REPORT)