

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: P1011264

Luminaire Tested: S123DIP-B1165D1025UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011264
REPORT IS A COMBINATION OF REPORTS P989360 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB35-4F0-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

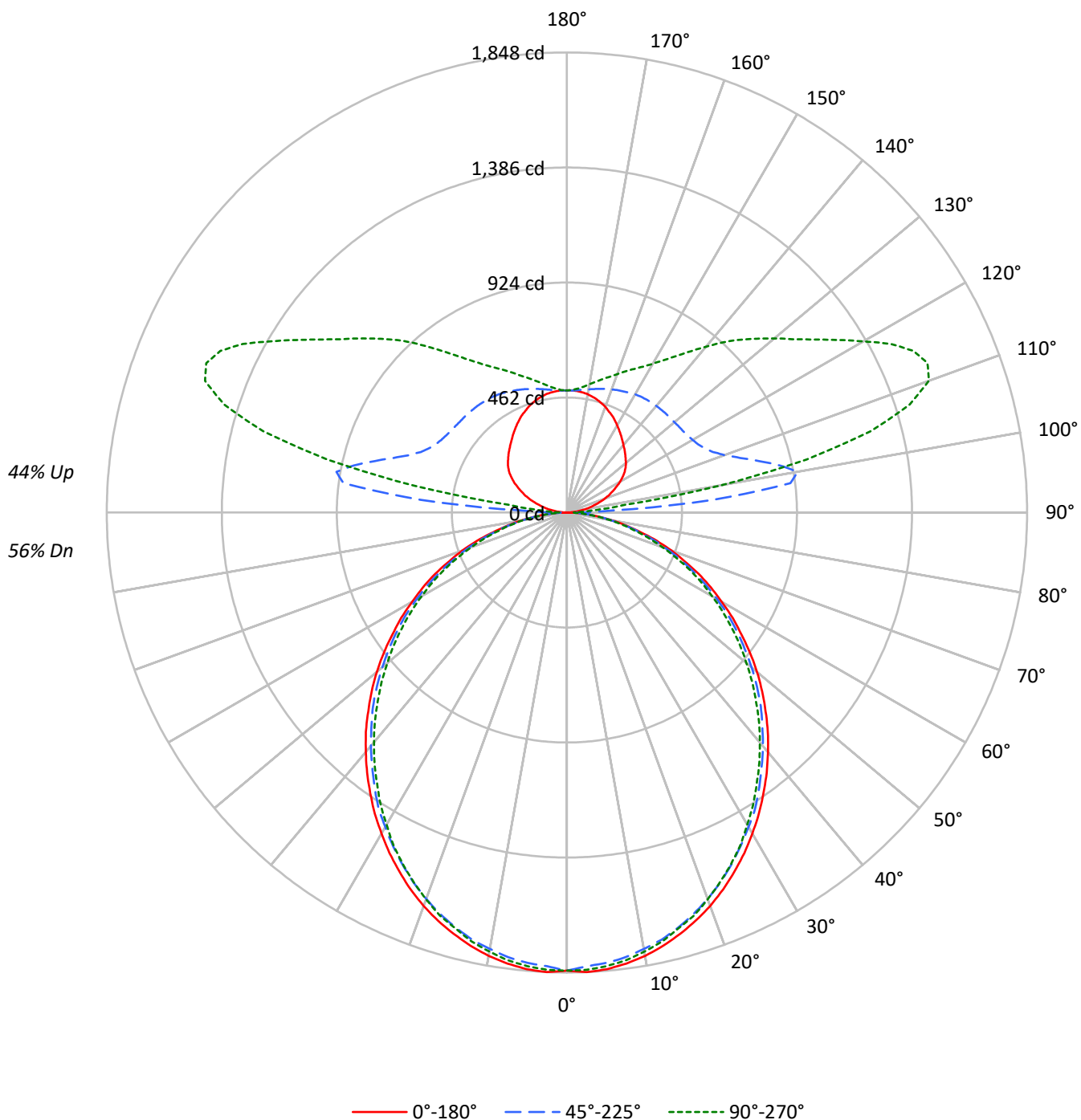
Lumens per Lamp: N/A
Luminaire Lumens: 8488.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	99	95	91	87		92	88	85	82		76	74	71		65	63	62		55	53	52
2	90	83	76	71		84	77	72	67		67	63	59		57	54	51		48	46	44
3	82	73	65	59		76	68	61	56		59	54	50		50	47	43		43	40	37
4	75	64	56	50		70	60	53	47		52	47	42		45	41	37		38	35	32
5	69	57	49	43		64	54	46	41		47	41	36		40	36	32		34	31	28
6	64	51	43	37		59	48	41	35		42	36	32		36	32	28		31	28	25
7	59	47	38	33		55	44	36	31		38	32	28		33	28	25		28	25	22
8	55	42	34	29		51	40	33	28		35	29	25		30	26	22		26	22	20
9	51	39	31	26		47	36	29	25		32	26	22		28	23	20		24	20	18
10	48	35	28	23		44	33	27	22		30	24	20		26	21	18		22	19	16

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	2.0
10°-20°	489.8	5.8
20°-30°	723.4	8.5
30°-40°	844.9	10.0
40°-50°	849.4	10.0
50°-60°	746.1	8.8
60°-70°	555.7	6.5
70°-80°	316.2	3.7
80°-90°	92.6	1.1
90°-100°	278.6	3.3
100°-110°	778.8	9.2
110°-120°	759.4	8.9
120°-130°	604.7	7.1
130°-140°	477.3	5.6
140°-150°	356.1	4.2
150°-160°	248.4	2.9
160°-170°	145.9	1.7
170°-180°	47.5	0.6
0°-30°	1386.7	16.3
0°-40°	2231.6	26.3
0°-60°	3827.2	45.1
0°-90°	4791.7	56.4
90°-120°	1816.8	21.4
90°-150°	3255.0	38.3
90°-180°	3697.0	43.6
0°-180°	8488.6	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°	2	12	25	28	29	8
95°	34	110	589	172	115	36
105°	115	170	798	1396	1262	122
115°	204	254	610	1338	1536	201
125°	283	334	570	1032	1211	251
135°	332	396	562	850	982	256
145°	378	433	555	697	767	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	

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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°	2.0	11.9	24.8	27.8	28.8
92.5°	14.9	59.6	184.6	63.0	52.6
95°	33.7	109.6	588.6	171.7	115.1
97.5°	53.6	125.6	905.2	431.8	236.2
100°	73.4	138.4	940.0	903.2	622.3
102.5°	94.3	153.4	875.4	1209.4	985.6
105°	115.1	170.2	798.0	1395.5	1262.5
107.5°	137.0	190.1	729.5	1477.4	1443.2
110°	160.8	210.4	673.0	1480.0	1546.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.6	231.8	635.2	1423.8	1567.3
115°	203.5	253.6	610.4	1338.5	1535.5
117.5°	224.3	274.4	593.6	1247.2	1466.0
120°	246.2	295.3	582.6	1160.8	1374.7
122.5°	265.0	315.1	575.7	1092.8	1289.3
125°	282.9	334.0	569.7	1032.3	1210.9
127.5°	296.8	351.9	566.8	982.6	1143.4
130°	309.7	367.7	563.8	937.0	1087.8
132.5°	319.6	382.1	562.8	894.3	1033.3
135°	331.5	395.5	561.8	850.1	981.6
137.5°	342.4	406.4	559.8	808.4	927.1
140°	353.4	416.4	558.8	767.8	869.5
142.5°	365.3	425.3	556.8	730.6	815.9
145°	378.2	433.2	554.8	697.3	767.3
147.5°	391.1	441.7	551.9	671.4	725.6
150°	404.0	448.6	547.9	648.7	689.8
152.5°	416.9	456.0	542.9	628.8	660.1
155°	429.8	463.6	537.0	610.4	636.2
157.5°	439.7	470.0	532.0	592.6	613.4
160°	451.6	475.4	526.1	576.2	591.6
162.5°	460.5	479.4	520.1	560.8	571.7
165°	469.5	482.9	514.1	545.4	554.8
167.5°	476.4	485.8	508.2	532.0	538.0
170°	482.4	487.4	502.2	520.1	523.1
172.5°	486.4	488.8	497.3	509.7	509.2
175°	489.3	489.8	493.3	500.3	499.3
177.5°	491.3	490.3	490.3	494.3	492.3
180°	490.3	490.3	490.3	490.3	490.3

(END OF REPORT)