

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: P1011344

Luminaire Tested: S123DIP-B1165D365UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011344
REPORT IS A COMBINATION OF REPORTS P989470 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D365UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

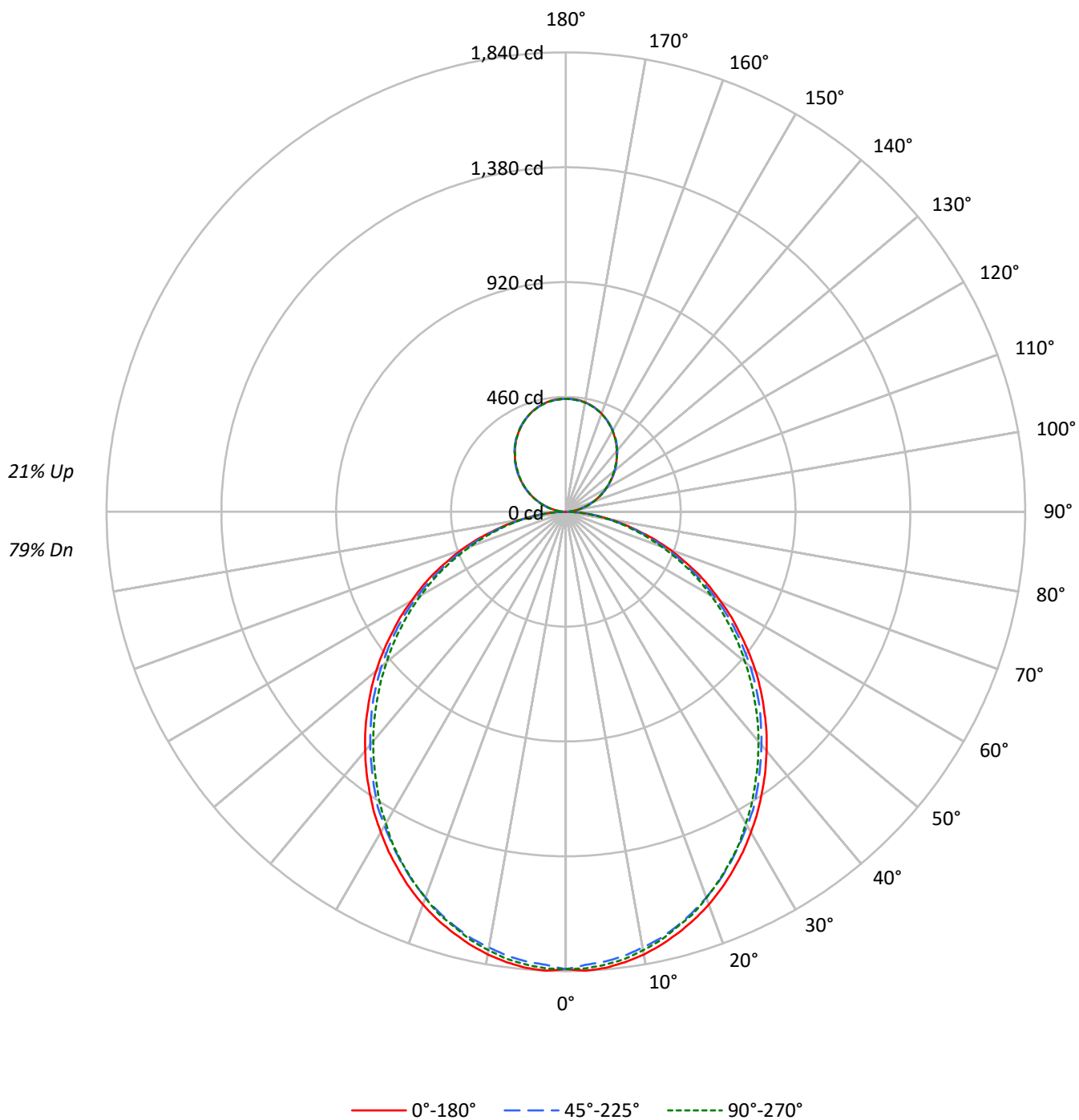
Lumens per Lamp: N/A
Luminaire Lumens: 6023.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79			
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67			
2	95	87	81	75	90	83	78	73	77	72	68	70	66	63	64	61	59	56			
3	87	77	69	63	82	73	66	61	68	62	57	62	57	53	57	53	50	47			
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43	40			
5	73	61	52	46	69	58	50	45	54	47	42	50	44	40	46	41	38	35			
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27			
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	26	24			
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	28	24	22			
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20			

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	2.9
10°-20°	487.7	8.1
20°-30°	720.3	12.0
30°-40°	841.2	14.0
40°-50°	845.7	14.0
50°-60°	742.9	12.3
60°-70°	553.3	9.2
70°-80°	314.9	5.2
80°-90°	90.5	1.5
90°-100°	29.1	0.5
100°-110°	88.2	1.5
110°-120°	150.1	2.5
120°-130°	197.5	3.3
130°-140°	222.0	3.7
140°-150°	218.2	3.6
150°-160°	183.7	3.1
160°-170°	122.3	2.0
170°-180°	42.8	0.7
0°-30°	1380.7	22.9
0°-40°	2221.8	36.9
0°-60°	3810.4	63.3
0°-90°	4769.0	79.2
90°-120°	267.5	4.4
90°-150°	905.2	15.0
90°-180°	1254.0	20.8
0°-180°	6023.0	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°	0	4	8	10	11	7
95°	21	24	26	28	28	23
105°	80	81	84	84	85	86
115°	151	152	152	152	152	150
125°	221	222	222	220	219	197
135°	287	289	289	287	287	221
145°	348	349	350	350	348	217
155°	398	398	399	400	398	183
165°	434	433	433	435	433	122
175°	452	450	450	452	450	43
180°	453	453	453	453	453	

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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°	0.4	3.9	8.5	10.0	10.7
92.5°	10.7	12.8	14.9	16.0	15.3
95°	21.0	23.5	26.3	27.7	27.7
97.5°	34.5	36.3	38.4	40.2	39.8
100°	48.4	50.5	52.3	53.3	54.0
102.5°	64.4	65.4	67.9	69.0	68.6
105°	80.0	80.7	83.9	83.9	84.6
107.5°	98.5	98.8	100.3	101.3	101.0
110°	115.5	116.3	117.0	118.4	117.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.3	133.7	133.7	135.5	135.5
115°	151.1	152.2	151.5	151.8	151.5
117.5°	169.2	169.6	168.9	168.9	167.8
120°	185.9	188.1	186.3	185.9	185.2
122.5°	203.4	204.8	204.1	203.0	201.9
125°	221.1	222.2	221.5	220.1	218.7
127.5°	237.5	239.6	238.9	236.8	235.4
130°	253.8	256.7	255.6	254.2	251.7
132.5°	270.2	273.0	272.3	270.6	268.8
135°	286.9	289.0	288.7	287.3	286.6
137.5°	302.2	304.0	305.0	303.3	302.2
140°	318.2	320.0	320.3	320.0	317.5
142.5°	332.8	334.6	335.3	334.9	333.1
145°	348.1	348.8	349.8	349.5	348.1
147.5°	361.2	362.6	363.7	363.7	361.6
150°	375.1	375.8	376.5	376.5	374.4
152.5°	386.5	387.5	387.9	388.6	386.8
155°	398.5	398.5	398.9	400.3	397.8
157.5°	408.9	408.5	408.9	410.3	408.1
160°	418.5	417.7	417.7	419.5	418.1
162.5°	427.0	425.9	426.3	428.1	425.6
165°	434.1	433.0	433.0	435.2	432.7
167.5°	440.1	438.7	439.1	441.2	439.1
170°	445.1	443.7	443.7	446.2	443.7
172.5°	449.0	447.6	447.6	449.7	447.3
175°	451.5	450.1	450.1	452.2	449.7
177.5°	452.9	451.5	451.5	453.7	451.2
180°	452.6	452.6	452.6	452.6	452.6

(END OF REPORT)