

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: P1011334

Luminaire Tested: S123DIP-B1165D365UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011334
REPORT IS A COMBINATION OF REPORTS P989445 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D365UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

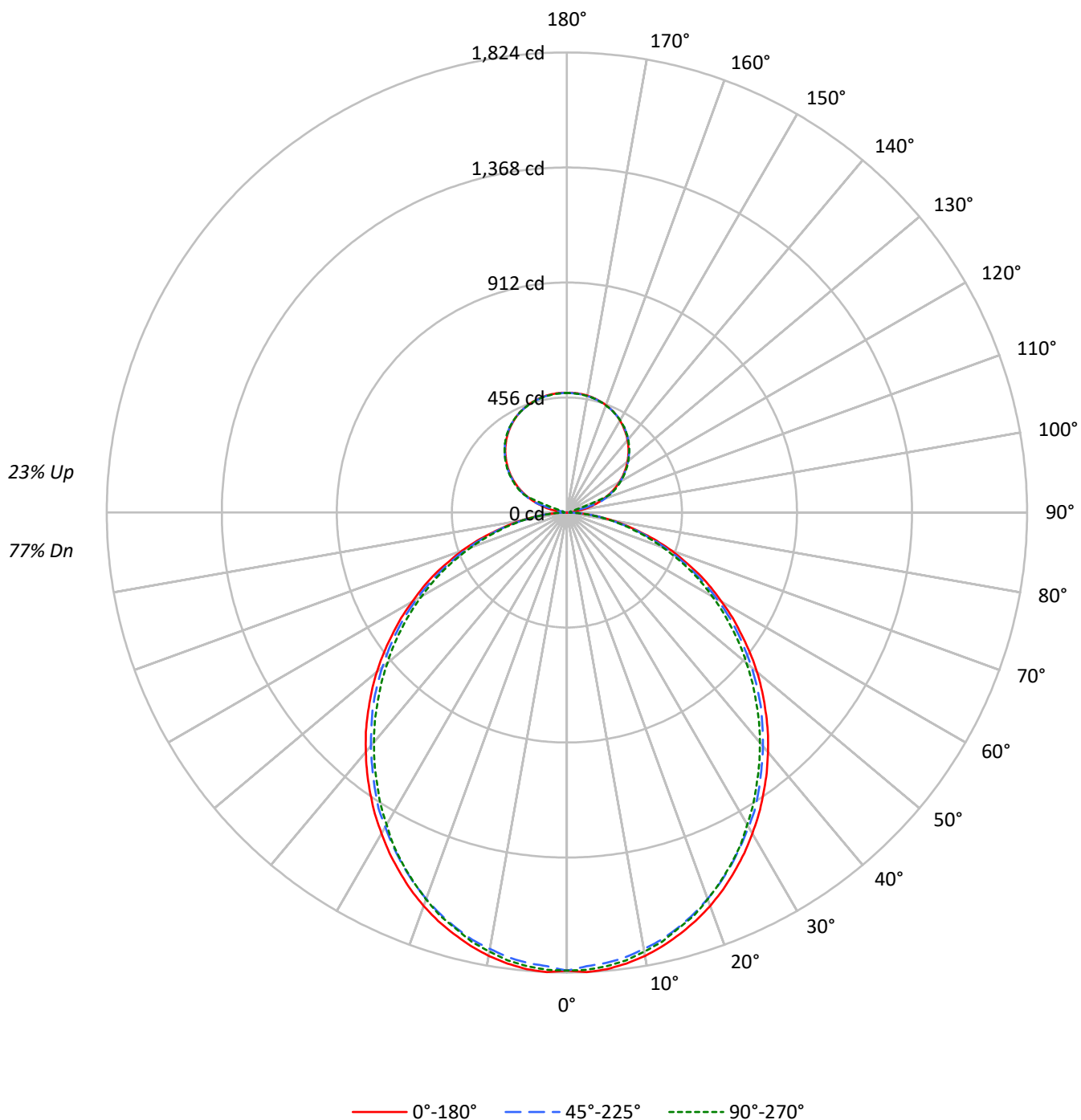
Lumens per Lamp: N/A
Luminaire Lumens: 6174.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	99	95	91	99	95	91	88	86	83	81	78	76	74	71	69	68
2	94	87	80	75	90	83	77	72	75	71	67	69	65	62	63	60	57
3	86	76	68	62	82	73	66	60	67	61	56	61	56	52	55	52	49
4	79	67	59	53	75	65	57	51	59	53	48	54	49	45	50	45	42
5	73	60	52	45	69	58	50	44	53	47	42	49	43	39	45	40	37
6	67	54	46	40	64	52	44	38	48	41	36	44	39	34	41	36	32
7	62	49	41	35	59	47	39	34	44	37	32	40	35	30	37	32	29
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	25	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19550	19550	19550
5°	19600	18876	18848
10°	19425	18237	18050
15°	19155	17572	17181
20°	18845	16834	16318
25°	18444	16057	15398
30°	18006	15251	14429
35°	17547	14428	13467
40°	17066	13565	12519
45°	16537	12723	11530
50°	15999	11785	10537
55°	15309	10807	9531
60°	14599	9730	8461
65°	13931	8563	7344
70°	12969	7269	6041
75°	11583	5755	4690
80°	10006	4046	3317
85°	7800	2175	1662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	2.8
10°-20°	483.5	7.8
20°-30°	714.1	11.6
30°-40°	834.0	13.5
40°-50°	838.4	13.6
50°-60°	736.5	11.9
60°-70°	548.5	8.9
70°-80°	312.1	5.1
80°-90°	89.7	1.5
90°-100°	16.7	0.3
100°-110°	80.9	1.3
110°-120°	198.2	3.2
120°-130°	251.6	4.1
130°-140°	268.8	4.4
140°-150°	251.3	4.1
150°-160°	202.7	3.3
160°-170°	130.8	2.1
170°-180°	45.1	0.7
0°-30°	1368.8	22.2
0°-40°	2202.7	35.7
0°-60°	3777.6	61.2
0°-90°	4728.0	76.6
90°-120°	295.8	4.8
90°-150°	1067.4	17.3
90°-180°	1446.0	23.4
0°-180°	6174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1818	1810	1793	1808	1805	172
15°	1730	1724	1704	1716	1707	488
25°	1571	1562	1541	1543	1538	724
35°	1359	1349	1329	1320	1312	850
45°	1114	1107	1087	1068	1060	860
55°	845	843	823	806	798	757
65°	576	568	553	540	536	569
75°	304	298	294	286	281	325
85°	81	78	78	75	75	87
90°	0	4	8	10	11	7
95°	22	7	11	13	13	26
105°	105	109	77	15	16	111
115°	197	199	202	206	207	195
125°	278	280	282	283	283	248
135°	346	348	349	350	349	266
145°	399	401	402	403	403	250
155°	439	439	439	441	439	202
165°	463	462	462	465	462	131
175°	474	473	473	475	473	45
180°	474	474	474	474	474	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1824.1	1817.9	1800.7	1816.3	1814.7
5°	1817.9	1810.0	1792.9	1808.5	1805.4
7.5°	1803.8	1796.0	1778.8	1792.9	1791.3
10°	1785.1	1777.2	1756.9	1771.0	1767.9
12.5°	1760.1	1753.8	1735.1	1744.5	1742.9
15°	1730.4	1724.1	1703.8	1716.3	1707.0
17.5°	1697.6	1689.8	1669.5	1678.9	1675.7
20°	1660.1	1650.7	1630.4	1636.7	1632.0
22.5°	1618.0	1608.6	1588.3	1593.0	1586.7
25°	1571.1	1561.7	1541.4	1543.0	1538.3
27.5°	1522.7	1513.3	1491.5	1493.0	1488.3
30°	1469.6	1461.8	1439.9	1439.9	1429.0
32.5°	1416.5	1405.6	1389.9	1379.0	1374.3
35°	1358.7	1349.3	1329.0	1319.7	1311.9
37.5°	1300.9	1288.4	1268.1	1257.2	1252.5
40°	1240.0	1230.6	1208.8	1196.3	1190.0
42.5°	1179.1	1168.2	1146.3	1133.8	1127.6
45°	1113.5	1107.3	1087.0	1068.2	1060.4
47.5°	1049.5	1040.1	1021.4	1002.6	996.4
50°	983.9	976.1	955.8	938.6	929.2
52.5°	915.2	910.5	888.6	874.6	865.2
55°	844.9	843.3	823.0	805.9	798.0
57.5°	779.3	773.1	757.4	741.8	732.5
60°	707.5	705.9	687.2	673.1	665.3
62.5°	643.4	638.7	620.0	606.0	601.3
65°	576.3	568.5	552.9	540.4	535.7
67.5°	504.4	498.2	485.7	474.8	468.5
70°	440.4	431.0	421.7	410.7	402.9
72.5°	373.3	367.0	356.1	346.7	343.6
75°	304.5	298.3	293.6	285.8	281.1
77.5°	243.6	240.5	234.3	228.0	228.0
80°	184.3	179.6	176.5	174.9	174.9
82.5°	126.5	126.5	126.5	123.4	121.8
85°	81.2	78.1	78.1	75.0	75.0
87.5°	40.6	35.9	34.4	32.8	32.8
90°	0.4	3.9	8.5	9.9	10.6
92.5°	8.1	6.0	9.2	11.6	12.0
95°	21.5	7.0	10.9	13.4	13.4
97.5°	39.1	29.2	11.3	14.1	14.4
100°	59.6	66.6	11.6	14.4	14.8
102.5°	82.8	87.4	26.1	14.4	15.2
105°	105.0	108.9	77.2	14.8	15.5
107.5°	128.6	131.8	137.1	82.8	36.7
110°	152.2	155.1	158.9	147.3	96.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	177.3	181.1	184.3	183.6
115°	197.0	199.1	202.3	205.8	207.2
117.5°	218.8	221.3	223.1	225.9	226.2
120°	238.9	242.1	243.2	246.0	246.0
122.5°	259.4	261.8	263.2	265.0	265.4
125°	277.7	280.5	281.9	282.6	283.3
127.5°	296.0	298.8	300.6	301.7	301.0
130°	312.9	315.8	317.2	318.6	317.9
132.5°	329.1	332.0	333.0	334.4	333.4
135°	345.7	347.8	349.2	350.3	349.2
137.5°	359.8	362.6	363.3	365.1	364.4
140°	373.9	376.0	377.1	378.5	377.8
142.5°	386.9	389.1	390.1	391.2	390.1
145°	398.9	401.4	402.1	402.8	402.8
147.5°	410.6	412.3	413.0	413.7	412.0
150°	421.1	422.2	422.9	423.6	422.5
152.5°	430.6	431.0	431.3	432.8	431.0
155°	439.4	438.7	439.1	440.9	438.7
157.5°	446.5	446.5	446.1	448.3	445.4
160°	452.8	452.5	452.1	454.2	451.8
162.5°	458.8	457.8	457.4	459.9	457.8
165°	463.4	462.4	462.0	464.8	462.4
167.5°	467.3	465.9	465.9	468.7	465.9
170°	470.5	469.0	469.0	471.9	469.0
172.5°	472.6	470.8	471.2	474.0	470.8
175°	474.3	472.6	472.9	475.4	472.6
177.5°	475.0	473.3	473.6	476.5	472.9
180°	474.3	474.3	474.3	474.3	474.3

(END OF REPORT)