

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: P1011333

Luminaire Tested: S123DIP-B1165D365UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011333
REPORT IS A COMBINATION OF REPORTS P989444 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D365UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

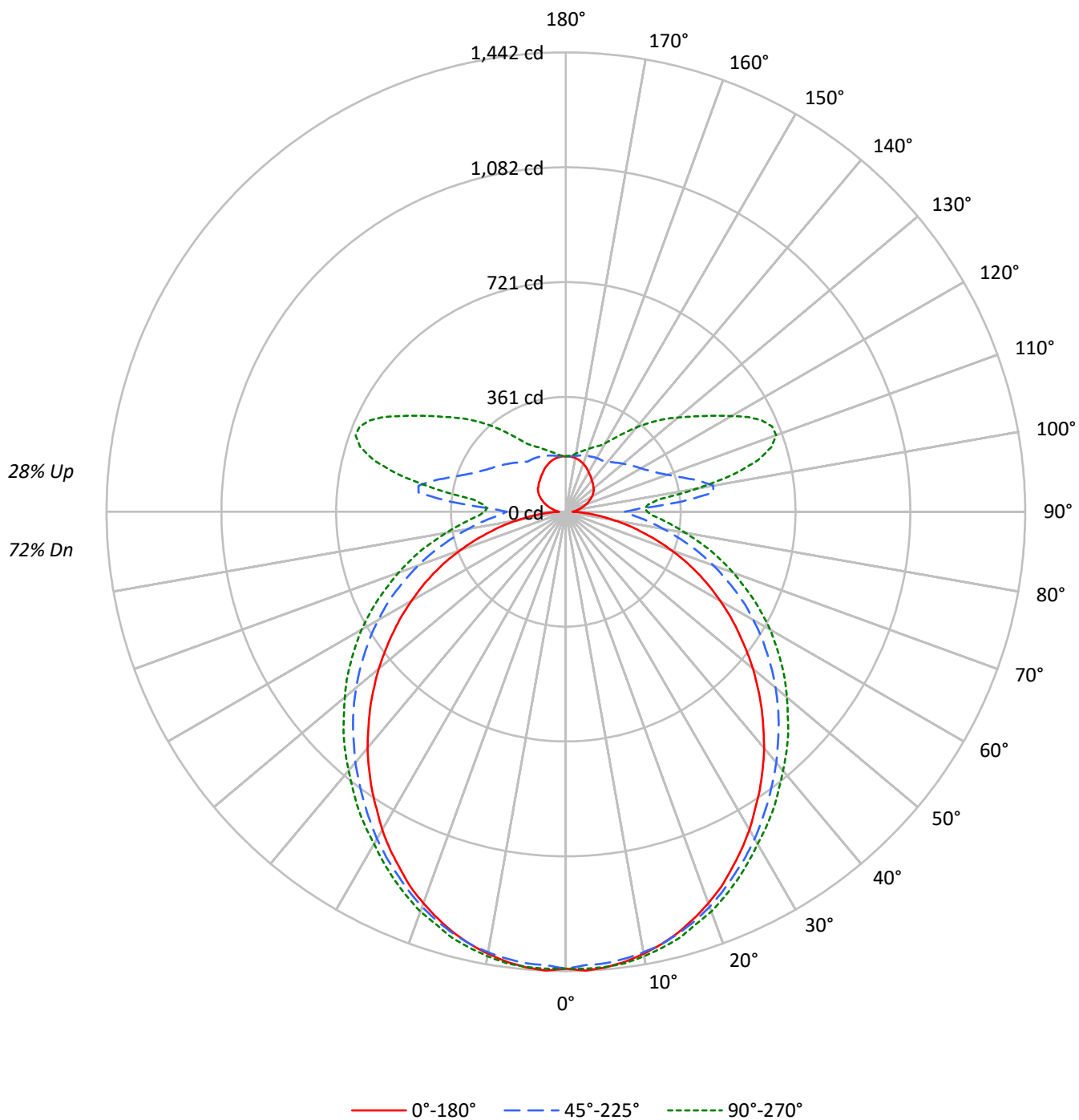
Lumens per Lamp: N/A
Luminaire Lumens: 6133.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	112	112	112	112	107	107	107	107	96	96	96		86	86	86		76
1	101	96	91	87	96	91	87	83	82	78	76		73	71	68		65
2	92	83	76	70	86	79	73	67	71	66	61		63	59	56		56
3	83	73	64	58	78	69	62	56	62	56	51		56	51	47		50
4	76	64	55	49	72	61	53	47	55	48	43		49	44	40		44
5	70	57	48	42	66	54	46	40	49	42	37		44	39	34		40
6	64	51	42	36	61	49	41	35	44	37	32		40	34	30		36
7	59	46	38	32	56	44	36	31	40	33	28		36	31	26		33
8	55	42	34	28	52	40	32	27	37	30	25		33	28	24		30
9	51	38	30	25	49	37	29	24	34	27	23		31	25	21		28
10	48	35	28	23	46	34	27	22	31	25	20		28	23	19		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15434	15434	15434
5°	15477	14982	14969
10°	15332	14576	14464
15°	15129	14128	13929
20°	14841	13628	13354
25°	14487	13066	12758
30°	14123	12556	12160
35°	13716	12022	11673
40°	13328	11534	11158
45°	12898	11061	10734
50°	12471	10593	10273
55°	12000	10112	9850
60°	11539	9621	9416
65°	11064	9096	8908
70°	10348	8509	8384
75°	9449	7839	7845
80°	8393	7161	7228
85°	7348	6611	6785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.2
10°-20°	387.8	6.3
20°-30°	579.9	9.5
30°-40°	692.3	11.3
40°-50°	724.4	11.8
50°-60°	679.8	11.1
60°-70°	567.8	9.3
70°-80°	406.0	6.6
80°-90°	242.5	4.0
90°-100°	250.8	4.1
100°-110°	388.2	6.3
110°-120°	344.2	5.6
120°-130°	257.3	4.2
130°-140°	188.6	3.1
140°-150°	130.5	2.1
150°-160°	88.3	1.4
160°-170°	51.8	0.8
170°-180°	16.9	0.3
0°-30°	1103.7	18.0
0°-40°	1796.0	29.3
0°-60°	3200.1	52.2
0°-90°	4416.5	72.0
90°-120°	983.2	16.0
90°-150°	1559.6	25.4
90°-180°	1717.0	28.0
0°-180°	6133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1432	1423	1436	1434	136
15°	1367	1371	1370	1386	1384	385
25°	1234	1250	1254	1275	1275	569
35°	1062	1087	1107	1131	1137	664
45°	868	906	945	975	987	670
55°	662	714	770	812	825	593
65°	458	519	587	634	650	452
75°	248	322	400	451	470	265
85°	76	155	237	290	306	79
90°	21	101	185	239	255	15
95°	29	117	364	264	260	26
105°	53	110	400	657	623	56
115°	80	117	300	596	678	80
125°	105	123	252	449	524	94
135°	121	142	218	349	403	93
145°	136	154	197	260	291	85
155°	153	165	191	217	226	70
165°	167	172	183	194	197	47
175°	174	174	175	178	177	17
180°	174	174	174	174	174	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1441.7	1437.0	1424.5	1437.0	1435.5
5°	1435.5	1432.3	1423.0	1435.5	1433.9
7.5°	1424.5	1424.5	1415.1	1430.8	1429.2
10°	1408.9	1412.0	1404.2	1419.8	1416.7
12.5°	1390.2	1394.8	1390.2	1404.2	1401.1
15°	1366.7	1371.4	1369.9	1385.5	1383.9
17.5°	1338.6	1348.0	1346.4	1360.5	1357.4
20°	1307.4	1316.7	1319.9	1333.9	1335.5
22.5°	1274.6	1283.9	1288.6	1307.4	1305.8
25°	1234.0	1249.6	1254.3	1274.6	1274.6
27.5°	1194.9	1212.1	1221.5	1238.6	1240.2
30°	1152.7	1173.0	1185.5	1204.3	1204.3
32.5°	1105.9	1129.3	1146.5	1166.8	1171.5
35°	1062.1	1087.1	1107.4	1130.9	1137.1
37.5°	1015.3	1043.4	1066.8	1093.4	1098.1
40°	968.4	996.5	1027.8	1054.3	1060.6
42.5°	916.9	952.8	985.6	1015.3	1024.7
45°	868.5	905.9	945.0	974.7	987.2
47.5°	816.9	859.1	902.8	935.6	945.0
50°	766.9	810.7	859.1	895.0	905.9
52.5°	713.8	760.7	815.4	852.8	866.9
55°	662.3	713.8	770.1	812.2	824.7
57.5°	612.3	665.4	726.3	768.5	782.5
60°	559.2	615.4	679.5	723.2	740.4
62.5°	509.2	567.0	635.7	679.5	695.1
65°	457.7	518.6	587.3	634.2	649.8
67.5°	406.1	470.2	538.9	590.4	602.9
70°	351.4	418.6	493.6	543.6	559.2
72.5°	301.5	368.6	446.7	498.3	513.9
75°	248.4	321.8	399.9	451.4	470.2
77.5°	203.1	276.5	354.6	409.2	423.3
80°	154.6	231.2	312.4	365.5	381.1
82.5°	112.5	190.6	273.3	326.5	342.1
85°	76.5	154.6	237.4	290.5	306.1
87.5°	46.9	125.0	204.6	257.7	273.3
90°	21.0	101.0	185.3	239.4	255.4
92.5°	24.0	107.0	229.6	238.0	248.3
95°	29.2	117.0	363.7	264.0	259.6
97.5°	34.6	116.5	466.8	345.5	291.6
100°	40.2	113.2	469.8	502.0	417.8
102.5°	46.0	110.6	437.4	599.9	536.0
105°	53.4	110.4	400.5	656.6	623.3
107.5°	59.6	111.2	366.9	674.6	676.6
110°	66.5	112.2	339.0	666.2	702.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.3	113.6	316.2	635.4	700.4
115°	80.1	116.6	299.6	595.7	678.2
117.5°	87.5	117.8	284.2	553.9	644.1
120°	93.6	119.0	272.5	513.8	600.8
122.5°	100.3	121.4	262.3	480.4	561.1
125°	105.2	123.4	252.4	449.4	523.8
127.5°	110.1	128.0	243.5	422.4	490.4
130°	114.7	133.8	234.6	396.8	459.8
132.5°	116.6	138.8	226.5	372.3	432.6
135°	120.9	142.0	218.2	348.8	403.4
137.5°	124.7	146.0	211.3	324.6	374.6
140°	127.1	149.5	204.7	302.4	346.3
142.5°	131.3	151.0	197.8	279.8	317.9
145°	135.9	153.9	197.1	260.2	291.2
147.5°	138.9	156.9	196.0	243.2	268.6
150°	143.5	159.4	194.6	230.4	248.1
152.5°	148.1	162.0	192.8	223.4	234.4
155°	152.7	164.6	190.7	216.8	226.0
157.5°	156.2	167.0	189.0	210.4	217.9
160°	160.4	168.8	186.8	204.6	210.1
162.5°	163.6	170.3	184.7	199.1	203.1
165°	166.8	171.5	182.6	193.7	197.1
167.5°	169.2	172.6	180.5	189.0	191.1
170°	171.3	173.1	178.4	184.8	185.8
172.5°	172.7	173.6	176.6	181.0	180.9
175°	173.8	174.0	175.2	177.7	177.3
177.5°	174.5	174.2	174.2	175.6	174.9
180°	174.2	174.2	174.2	174.2	174.2

(END OF REPORT)