

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: P1011360

Luminaire Tested: S123DIP-B1165D365UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011360
REPORT IS A COMBINATION OF REPORTS P989486 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D365UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

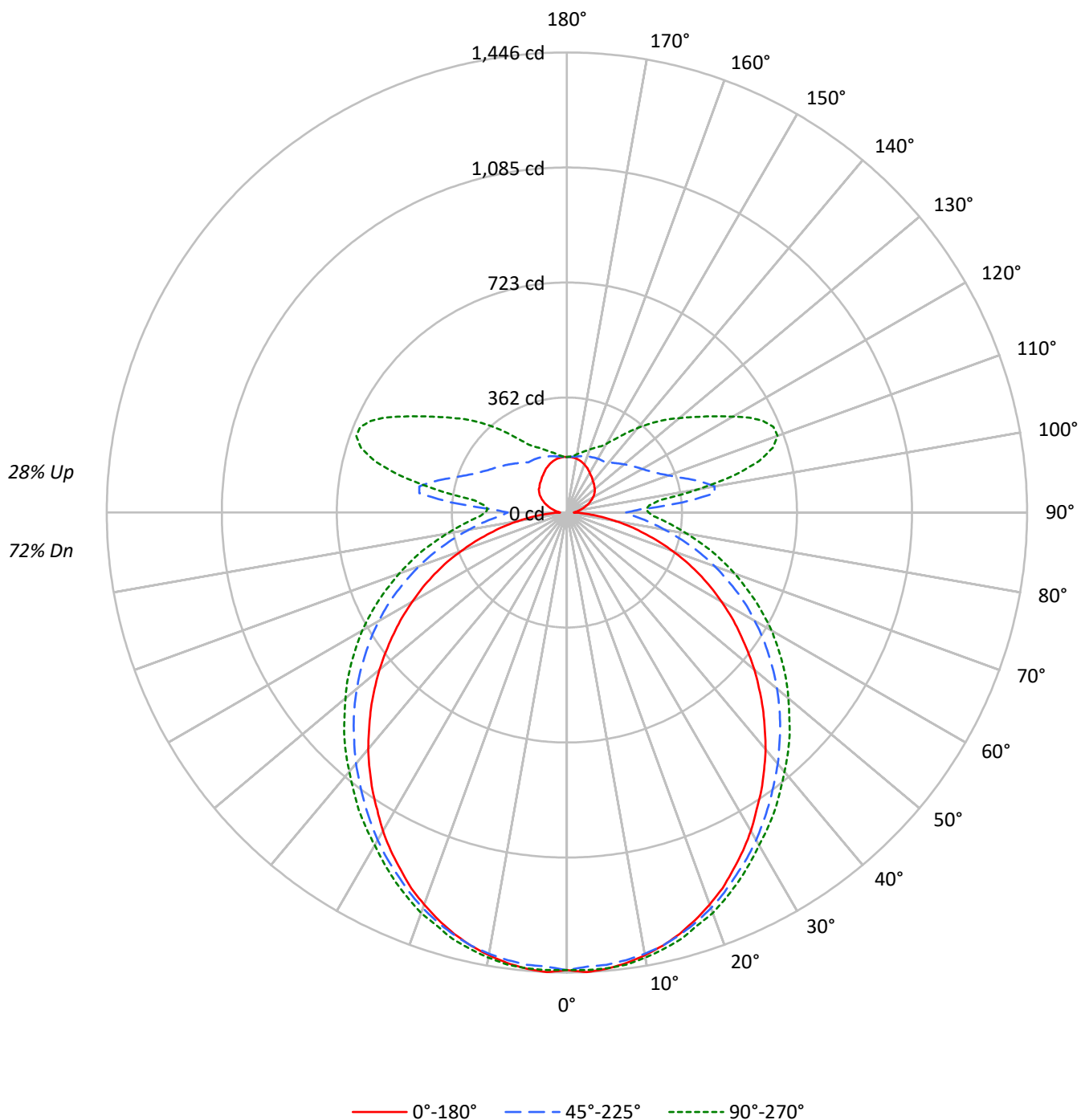
Lumens per Lamp: N/A
Luminaire Lumens: 6151.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	30	10
RCR																	
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76
1	101	96	91	87	96	91	87	83	82	78	76	73	71	68	65	63	61
2	92	83	76	70	86	79	73	67	71	66	61	63	59	56	56	53	51
3	83	73	64	58	78	69	62	56	62	56	51	56	51	47	50	46	42
4	76	64	55	49	72	61	53	47	55	48	43	49	44	40	44	40	36
5	70	57	48	42	66	54	46	40	49	42	37	44	39	34	40	35	31
6	64	51	42	36	61	49	41	35	44	37	32	40	34	30	36	31	27
7	59	46	38	32	56	44	36	31	40	33	28	36	31	26	33	28	24
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	25	22
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20
10	48	35	28	23	46	34	27	22	31	25	20	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15480	15480	15480
5°	15521	15025	15013
10°	15376	14618	14506
15°	15173	14168	13969
20°	14884	13668	13393
25°	14528	13103	12795
30°	14165	12593	12195
35°	13756	12058	11706
40°	13366	11567	11190
45°	12935	11093	10764
50°	12508	10623	10303
55°	12035	10141	9878
60°	11572	9647	9442
65°	11096	9122	8934
70°	10381	8533	8408
75°	9476	7861	7866
80°	8420	7181	7248
85°	7377	6630	6805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	2.2
10°-20°	388.9	6.3
20°-30°	581.6	9.5
30°-40°	694.4	11.3
40°-50°	726.5	11.8
50°-60°	681.7	11.1
60°-70°	569.4	9.3
70°-80°	407.2	6.6
80°-90°	243.3	4.0
90°-100°	251.5	4.1
100°-110°	389.4	6.3
110°-120°	345.3	5.6
120°-130°	258.1	4.2
130°-140°	189.2	3.1
140°-150°	130.9	2.1
150°-160°	88.5	1.4
160°-170°	52.0	0.8
170°-180°	16.9	0.3
0°-30°	1106.9	18.0
0°-40°	1801.2	29.3
0°-60°	3209.4	52.2
0°-90°	4429.3	72.0
90°-120°	986.2	16.0
90°-150°	1564.3	25.4
90°-180°	1722.0	28.0
0°-180°	6151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1440	1436	1427	1440	1438	137
15°	1371	1375	1374	1390	1388	386
25°	1238	1253	1258	1278	1278	570
35°	1065	1090	1111	1134	1140	666
45°	871	909	948	978	990	672
55°	664	716	772	815	827	595
65°	459	520	589	636	652	454
75°	249	323	401	453	472	266
85°	77	155	238	291	307	79
90°	21	101	186	240	256	16
95°	29	117	365	265	260	26
105°	54	111	402	659	625	56
115°	80	117	300	597	680	80
125°	106	124	253	451	525	94
135°	121	142	219	350	404	94
145°	136	154	198	261	292	85
155°	153	165	191	218	227	70
165°	167	172	183	194	198	47
175°	174	174	176	178	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1445.9	1441.2	1428.7	1441.2	1439.6
5°	1439.6	1436.5	1427.1	1439.6	1438.1
7.5°	1428.7	1428.7	1419.3	1434.9	1433.4
10°	1413.0	1416.1	1408.3	1424.0	1420.8
12.5°	1394.2	1398.9	1394.2	1408.3	1405.2
15°	1370.7	1375.4	1373.8	1389.5	1387.9
17.5°	1342.5	1351.9	1350.3	1364.4	1361.3
20°	1311.2	1320.6	1323.7	1337.8	1339.4
22.5°	1278.3	1287.7	1292.4	1311.2	1309.6
25°	1237.5	1253.2	1257.9	1278.3	1278.3
27.5°	1198.4	1215.6	1225.0	1242.2	1243.8
30°	1156.1	1176.5	1189.0	1207.8	1207.8
32.5°	1109.1	1132.6	1149.8	1170.2	1174.9
35°	1065.2	1090.3	1110.7	1134.2	1140.4
37.5°	1018.2	1046.4	1069.9	1096.6	1101.3
40°	971.2	999.4	1030.8	1057.4	1063.7
42.5°	919.5	955.6	988.5	1018.2	1027.6
45°	871.0	908.6	947.7	977.5	990.0
47.5°	819.3	861.6	905.4	938.3	947.7
50°	769.2	813.0	861.6	897.6	908.6
52.5°	715.9	762.9	817.7	855.3	869.4
55°	664.2	715.9	772.3	814.6	827.1
57.5°	614.1	667.3	728.4	770.7	784.8
60°	560.8	617.2	681.4	725.3	742.5
62.5°	510.7	568.6	637.6	681.4	697.1
65°	459.0	520.1	589.0	636.0	651.7
67.5°	407.3	471.5	540.4	592.1	604.7
70°	352.5	419.8	495.0	545.1	560.8
72.5°	302.3	369.7	448.0	499.7	515.4
75°	249.1	322.7	401.0	452.7	471.5
77.5°	203.6	277.3	355.6	410.4	424.5
80°	155.1	231.8	313.3	366.6	382.2
82.5°	112.8	191.1	274.1	327.4	343.1
85°	76.8	155.1	238.1	291.4	307.0
87.5°	47.0	125.3	205.2	258.5	274.1
90°	21.1	101.4	185.8	240.2	256.2
92.5°	24.1	107.4	230.3	238.6	249.0
95°	29.2	117.4	364.8	264.8	260.3
97.5°	34.8	116.8	468.2	346.5	292.5
100°	40.3	113.5	471.2	503.5	419.1
102.5°	46.1	111.0	438.8	601.6	537.5
105°	53.5	110.8	401.8	658.6	625.2
107.5°	59.8	111.6	368.0	676.8	678.7
110°	66.7	112.6	340.1	668.2	704.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.5	113.8	317.2	637.3	702.5
115°	80.3	117.0	300.5	597.4	680.3
117.5°	87.7	118.2	285.1	555.5	646.1
120°	94.0	119.3	273.4	515.3	602.6
122.5°	100.7	121.6	263.1	481.8	562.8
125°	105.5	123.7	253.1	450.8	525.4
127.5°	110.4	128.4	244.2	423.7	492.0
130°	115.0	134.1	235.4	398.0	461.2
132.5°	117.0	139.2	227.1	373.4	433.9
135°	121.2	142.5	219.0	349.9	404.5
137.5°	125.1	146.4	211.9	325.6	375.7
140°	127.5	150.0	205.4	303.3	347.4
142.5°	131.7	151.6	198.4	280.6	318.9
145°	136.3	154.4	197.7	260.9	292.2
147.5°	139.3	157.4	196.6	243.9	269.5
150°	143.9	159.8	195.2	231.1	248.9
152.5°	148.5	162.5	193.4	224.0	235.2
155°	153.1	165.1	191.3	217.5	226.7
157.5°	156.7	167.4	189.5	211.1	218.5
160°	160.9	169.4	187.4	205.2	210.8
162.5°	164.1	170.8	185.3	199.8	203.7
165°	167.3	172.0	183.2	194.3	197.7
167.5°	169.7	173.1	181.1	189.5	191.7
170°	171.9	173.6	178.9	185.3	186.4
172.5°	173.3	174.2	177.2	181.6	181.4
175°	174.3	174.5	175.8	178.2	177.9
177.5°	175.0	174.7	174.7	176.1	175.4
180°	174.7	174.7	174.7	174.7	174.7

(END OF REPORT)