

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: P1027424

Luminaire Tested: S125DIP-B1090D375UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027424
REPORT IS A COMBINATION OF REPORTS P1001384 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

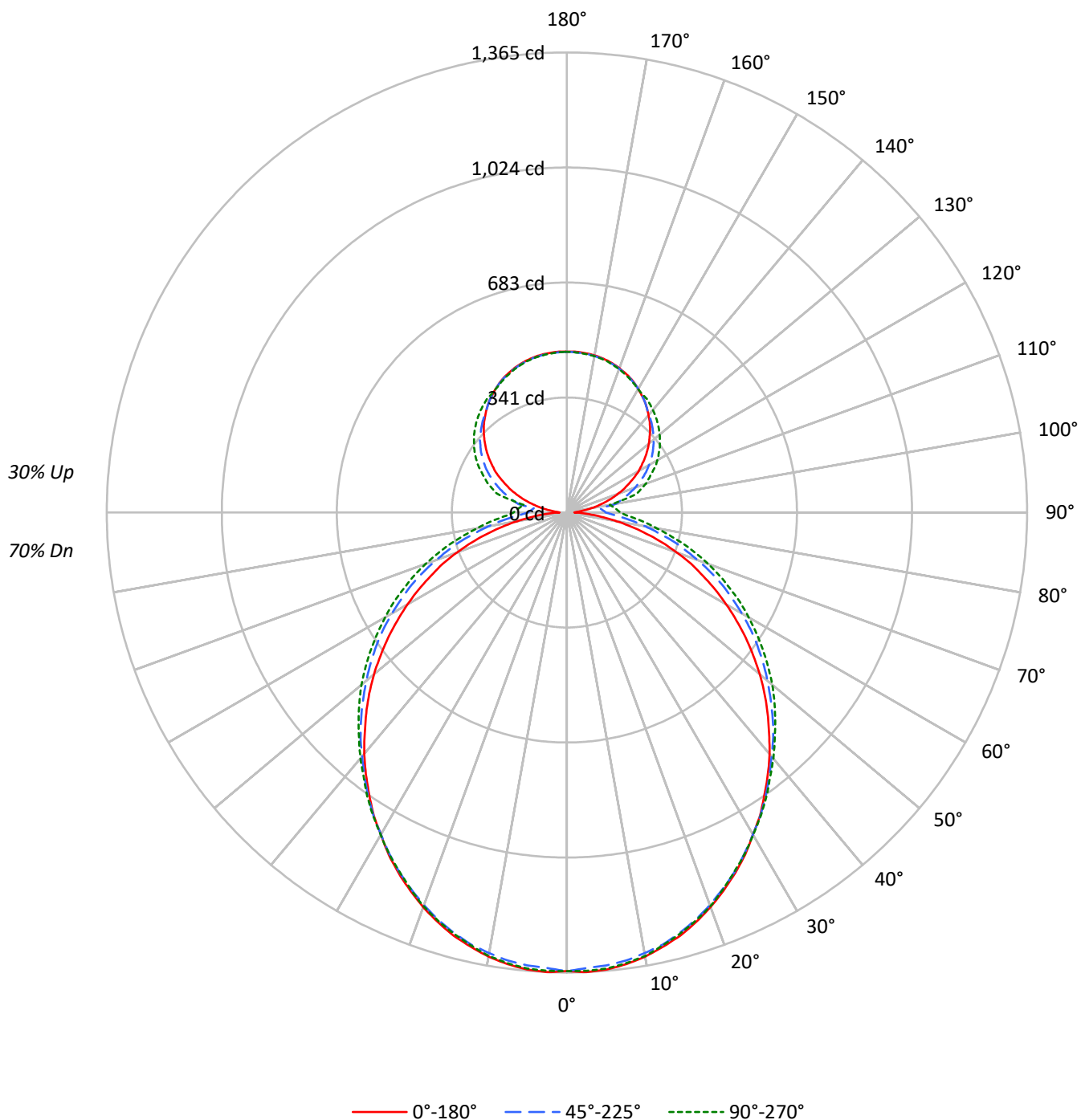
Lumens per Lamp: N/A
Luminaire Lumens: 5682.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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

TEST NUMBER: P1027424

CATALOG NUMBER: S125DIP-B1090D375UB40-4F0-XX-W2A-D

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	106	106	106	106	94	94	94	84	84	84	74	74	74
1	101	96	92	88	95	91	87	84	81	78	75	72	70	68	64	62	61
2	92	84	77	71	86	79	73	68	71	66	62	63	59	56	56	53	50
3	83	73	65	59	78	69	62	56	62	56	51	55	51	47	49	45	42
4	76	65	56	50	72	61	54	48	55	49	44	49	44	40	44	40	36
5	70	58	49	42	66	55	47	41	49	43	38	44	39	35	39	35	31
6	65	52	43	37	61	49	41	35	44	38	33	40	34	30	36	31	28
7	60	47	38	32	56	44	37	31	40	34	29	36	31	27	32	28	24
8	55	42	34	29	52	40	33	28	37	30	26	33	28	24	30	25	22
9	52	39	31	26	49	37	30	25	34	27	23	31	25	21	28	23	20
10	48	36	28	23	46	34	27	22	31	25	21	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

TEST NUMBER: P1027424

CATALOG NUMBER: S125DIP-B1090D375UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.3
10°-20°	365.6	6.4
20°-30°	543.6	9.6
30°-40°	643.8	11.3
40°-50°	665.6	11.7
50°-60°	613.2	10.8
60°-70°	495.7	8.7
70°-80°	331.7	5.8
80°-90°	172.1	3.0
90°-100°	112.8	2.0
100°-110°	178.8	3.1
110°-120°	241.5	4.3
120°-130°	275.8	4.9
130°-140°	279.4	4.9
140°-150°	253.5	4.5
150°-160°	203.2	3.6
160°-170°	131.4	2.3
170°-180°	45.3	0.8
0°-30°	1038.0	18.3
0°-40°	1681.9	29.6
0°-60°	2960.7	52.1
0°-90°	3960.2	69.7
90°-120°	533.1	9.4
90°-150°	1341.9	23.6
90°-180°	1722.0	30.3
0°-180°	5682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	67	115	148	158	16
95°	38	71	103	134	144	38
105°	116	139	179	206	214	123
115°	203	214	249	272	278	201
125°	283	284	311	331	336	252
135°	349	350	358	375	380	269
145°	403	402	402	409	412	252
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

TEST NUMBER: P1027424

CATALOG NUMBER: S125DIP-B1090D375UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	21.7	67.2	115.1	147.5	157.9
92.5°	25.4	60.9	109.8	140.8	150.6
95°	37.5	71.1	103.1	134.2	143.5
97.5°	53.8	88.0	98.5	127.2	136.8
100°	73.8	102.8	146.9	122.2	128.8
102.5°	93.9	120.7	162.8	190.2	168.4
105°	116.0	138.8	178.8	205.5	214.4
107.5°	138.7	157.4	196.7	223.8	230.4
110°	160.6	176.7	214.8	239.1	248.7



TEST NUMBER: P1027424

CATALOG NUMBER: S125DIP-B1090D375UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.6	195.6	232.1	254.7	263.3
115°	203.2	214.3	249.3	272.0	277.9
117.5°	224.9	231.5	266.3	286.9	295.5
120°	246.1	249.7	281.5	303.4	309.7
122.5°	263.4	266.6	296.3	316.9	322.8
125°	282.9	284.1	310.8	330.6	336.3
127.5°	300.3	300.8	323.1	342.4	347.6
130°	317.3	317.8	336.7	354.4	359.3
132.5°	333.0	335.1	347.3	366.0	369.6
135°	348.9	349.6	358.3	374.9	379.5
137.5°	363.7	364.5	369.1	385.1	388.7
140°	376.8	377.5	378.6	393.9	397.2
142.5°	389.9	389.0	389.7	401.7	404.9
145°	402.6	402.1	402.1	409.1	412.3
147.5°	412.7	412.7	413.0	416.1	416.2
150°	423.3	422.6	423.3	424.0	422.4
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)