

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: P1027460

Luminaire Tested: S125DIP-B1090D610UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027460
REPORT IS A COMBINATION OF REPORTS P1001435 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

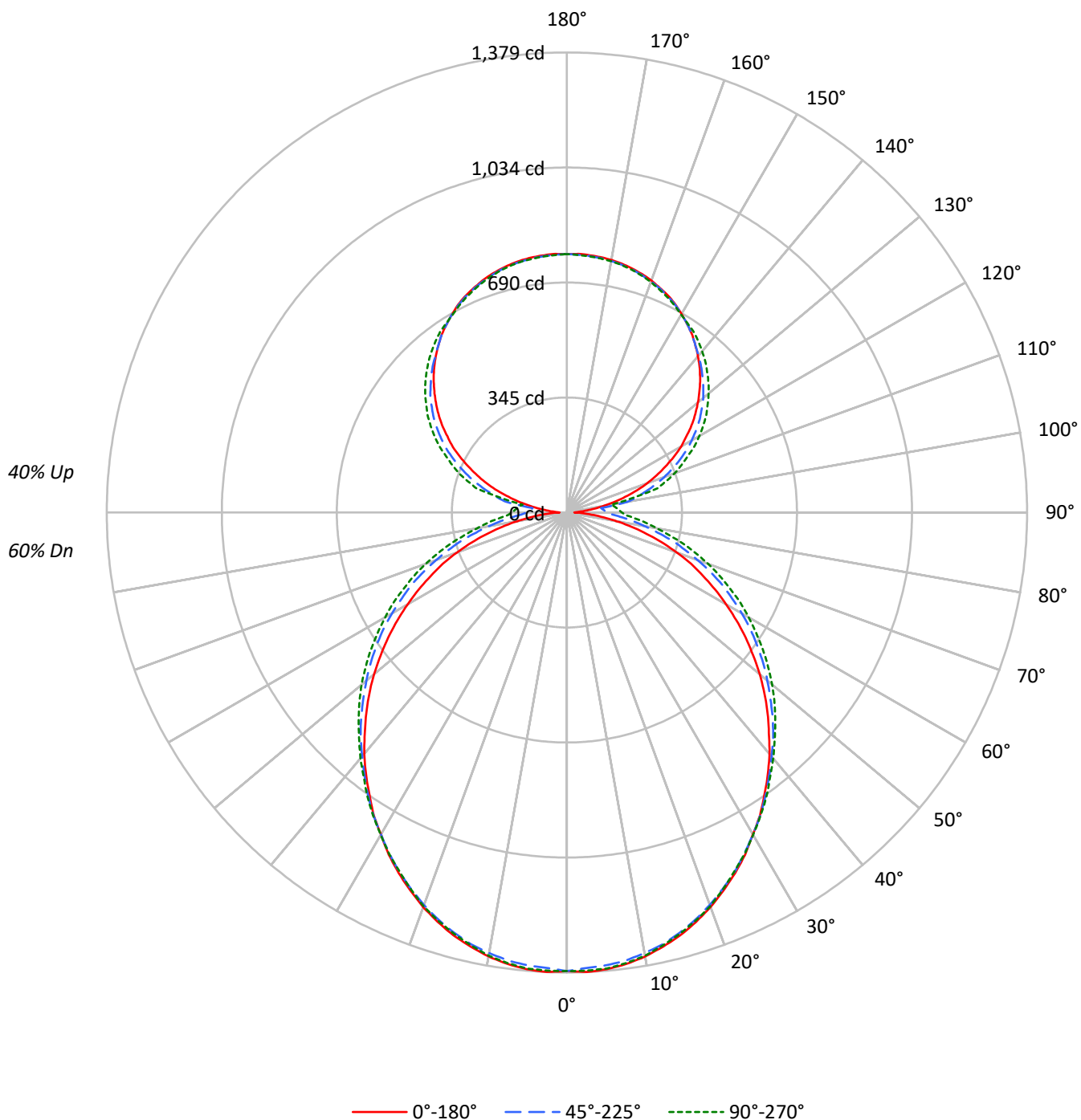
Lumens per Lamp: N/A
Luminaire Lumens: 6638.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1027460

CATALOG NUMBER: S125DIP-B1090D610UB35-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027460

CATALOG NUMBER: S125DIP-B1090D610UB35-4F0-XX-W2A-D

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	44
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	35	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
10	47	35	27	22	44	33	26	21	29	23	20	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

TEST NUMBER: P1027460

CATALOG NUMBER: S125DIP-B1090D610UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.0
10°-20°	369.2	5.6
20°-30°	549.1	8.3
30°-40°	650.3	9.8
40°-50°	672.3	10.1
50°-60°	619.3	9.3
60°-70°	500.6	7.5
70°-80°	335.0	5.0
80°-90°	174.3	2.6
90°-100°	123.8	1.9
100°-110°	246.7	3.7
110°-120°	362.9	5.5
120°-130°	431.2	6.5
130°-140°	446.4	6.7
140°-150°	410.1	6.2
150°-160°	329.9	5.0
160°-170°	213.3	3.2
170°-180°	73.6	1.1
0°-30°	1048.4	15.8
0°-40°	1698.6	25.6
0°-60°	2990.2	45.0
0°-90°	4000.1	60.3
90°-120°	733.4	11.0
90°-150°	2021.2	30.4
90°-180°	2638.0	39.7
0°-180°	6638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	22	70	120	154	165	17
95°	50	84	108	140	150	54
105°	181	205	245	272	281	192
115°	325	337	373	395	400	322
125°	456	459	486	505	510	407
135°	565	567	575	592	595	435
145°	653	653	653	660	662	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

TEST NUMBER: P1027460

CATALOG NUMBER: S125DIP-B1090D610UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	22.2	69.9	119.7	153.6	164.7
92.5°	29.8	63.6	114.3	146.9	156.8
95°	50.2	83.6	107.6	140.1	149.6
97.5°	77.6	113.4	103.3	132.8	142.8
100°	110.7	140.7	186.1	128.9	134.7
102.5°	144.4	172.3	215.2	243.3	203.2
105°	180.9	204.8	245.2	272.2	281.0
107.5°	218.6	237.4	277.7	305.2	311.0
110°	255.1	271.3	310.1	334.0	344.1



TEST NUMBER: P1027460

CATALOG NUMBER: S125DIP-B1090D610UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.7	304.6	341.5	363.5	371.7
115°	325.0	337.3	372.9	394.8	399.5
117.5°	360.9	367.7	403.7	423.2	431.4
120°	395.3	398.9	431.6	453.3	458.6
122.5°	424.5	428.6	458.9	479.3	483.9
125°	456.0	458.7	485.7	505.0	509.9
127.5°	485.1	486.6	509.0	528.0	531.5
130°	512.6	514.2	533.7	550.7	554.7
132.5°	538.9	542.3	554.1	572.9	575.4
135°	564.7	566.8	575.1	591.5	594.7
137.5°	588.8	590.9	595.1	611.3	613.9
140°	611.0	612.1	612.9	628.9	630.8
142.5°	632.2	631.5	632.6	644.7	646.7
145°	652.9	652.7	652.7	660.0	661.9
147.5°	669.9	669.9	670.5	673.8	672.5
150°	687.2	686.0	687.2	688.3	685.0
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)